



Danmark

## Marine Equipment Directive EC 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

<b>Implementing Regulation</b>	<b>(EU)2024/1975</b>
<b>Certificate Holder and Manufacturer</b>	<b>Thrane &amp; Thrane A/S Lundtoftegaardsvej 93 D DK-2800 Kgs. Lyngby Denmark</b>
<b>Product(s)</b>	<b>SAILOR MF/HF System 6000B (500W)</b>
<b>Product Sector</b>	<b>Radiocommunications Equipment</b>
<b>Product Type</b>	<b>MED/5.5 HF Marine Safety Information Equipment MED/5.10 MF Radio capable of DSC and Radiotelephony MED/5.11 MF DSC Watchkeeping Receiver MED/5.14 MF/HF Radio capable of DSC, NBDP and Radiotelephony MED/5.15 MF/HF DSC Scanning Watchkeeping Receiver</b>

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

Valid from: 03 July 2025

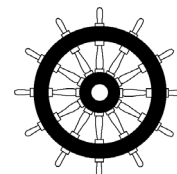
(Andy Little)

Expiry Date: 02 July 2030 <sup>Note 2</sup>

This certificate has been issued in accordance with the TÜV SÜD Testing, Certification Validation and Verification 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](mailto:BABT@tuvsud.com)

**2443**

Issued by TÜV SÜD DANMARK ApS under document number: DK-MED000081 Issue 11

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# Annex to Marine Equipment Directive Module B Type Examination Certificate



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## 1 Equipment Description

MF/HF SSB radiotelephone with integrated Class-A DSC controller and watch-keeping receiver

### 1.1 Models

Model	Description
<b>SAILOR MF/HF 6350</b> <small>Note 1</small>	500W MF/HF SSB radiotelephone with integrated Class-A DSC controller and 2187.5kHz watchkeeping receiver
<b>HIGHLANDER MF/HF 6350</b>	500W MF/HF SSB radiotelephone with integrated Class-A DSC controller, NBDP controller and 6 channel scanning watchkeeping receiver

#### 1.1.1 System Components

	SAILOR 6350	HIGHLANDER 6350
<b>Antenna Tuning Unit</b>	SAILOR 6383 TT-6383A: 406383A	SAILOR 6383 TT-6383A: 406383A
<b>Transceiver Unit</b>	SAILOR 6369 TT-6369B: 406369B	HIGHLANDER 6369 TT-6369B: 406369B-BHL
<b>MF/HF Control Unit</b>	SAILOR 6301 TT-6301A: 406301A	HIGHLANDER 6301 TT-6301A: 406301A-BHL
<b>Handset</b>	SAILOR 6201 TT-6201A: 406201A	SAILOR 6201 TT-6201A: 406201A
<b>Alarm Panel</b>	SAILOR 6103 TT-6103A: 406103A	SAILOR 6103 TT-6103A: 406103A
<b>Message Terminal</b>	SAILOR 6018 TT- 6018A: 406018A	SAILOR 6018 TT- 6018A: 406018A
<b>Control Panel</b>	SAILOR 6004 TT-6004A: 406004A	SAILOR 6004 TT-6004A: 406004A
<b>Printer</b>	SAILOR H1252B H1252B/TT-3608A: 8012520006	SAILOR H1252B H1252B/TT-3608A: 8012520006
<b>Keyboard</b>	SAILOR 6001 TT-6001A: 406001A	SAILOR 6001 TT-6001A: 406001A
<b>Accessory Connection Box</b>	SAILOR 6209 TT-6209A: 406209A	SAILOR 6209 TT-6209A: 406209A
<b>CU Connection Box</b>	SAILOR 6208 TT-6208A: 406208A	SAILOR 6208 TT-6208A: 406208A
<b>Power Supply</b>	SAILOR 6080 TT-6080A: 406080A	SAILOR 6080 TT-6080A: 406080A
<b>Power Supply</b>	SAILOR 6081 TT-6081A: 406081A	SAILOR 6081 TT-6081A: 406081A
<b>Loudspeaker</b>	SAILOR 6270 TT-6270A: 406270A	SAILOR 6270 TT-6270A: 406270A



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## 1.1.2 Options

MED Item	Option	Description
MED/5.10 & MED/5.11	Default	21875 kHz Watchkeeping Receiver
MED/5.10, MED/5.11 & MED/5.15	HF DSC	6 Channel Watchkeeping Receiver enabled
MED/5.10, MED/5.11 & MED/5.15, MED/5.5, MED/5.14	HF DSC with NBDP	6 Channel Watchkeeping Receiver enabled, NBDP enabled: Requires additional hardware: TT-6018A Message Terminal TT-6001A Keyboard H1252B/TT-3608 Printer

## 2 Specified Requirements

### 2.1 Implementing Regulation (EU)2024/1975 MED/5.5 Row 1 of 2, MED/5.10 Row 3 of 4, MED/5.11 Row 3 of 4, MED/5.14 Row 4 of 5 and MED/5.15 Row 4 of 5

Type approval requirements	Carriage and Performance Requirements
SOLAS 74 Reg. IV/14, SOLAS 74 Reg. X/3, IMO Res. MSC.36(63)-(1994 HSC Code) 14, IMO Res. MSC.97(73)-(2000 HSC Code) 14.	SOLAS 74 Reg. IV/7 SOLAS 74 Reg. IV/9 SOLAS 74 Reg. IV/10 SOLAS 74 Reg. X/3 IMO Res. A.694(17) IMO Res. A.699(17) IMO Res. A.700(17) IMO Res. A.804(19) IMO Res. A.806(19) IMO Res. MSC.36(63)-(1994 HSC Code) 14 IMO Res. MSC.97(73)-(2000 HSC Code) 14 IMO Res. MSC.302(87) IMO MSC/Circ.862 IMO COMSAR/Circ.32 Revision 2 IMO MSC.1/Circ.1460 Revision 4 IMO MSC.1/Circ.1676 ITU-R M.476-5 (10/95) ITU-R M.492-6 (10/95) ITU-R M.493-15 (01/19) ITU-R M.540-2 (06/90) ITU-R M.541-10 (10/15) ITU-R M.625-4 (03/12) ITU-R M.688 (06/90) ITU-R M.1173-1 (03/12)
Assessed Testing Standards	
EN 60945 (2002) incl. IEC 60945 Corr.1 (2008)	ETSI EN 300 338-1 V1.5.1 (2019-09)*
EN 61162-1 (2016)	ETSI EN 300 338-1 V1.6.1 (2021-05)**
EN IEC 61162-450 (2018)	ETSI EN 300 338-2 V1.5.1 (2020-06)
EN IEC 62923-1 (2018)	ETSI EN 300 373-1 V1.4.1 (2013-09)
EN IEC 62923-2 (2018)	ETSI EN 301 033 V1.4.1 (2013-09)
ETSI EN 300 067 Ed.1 (1990-11) ETSI EN 300 067/A1 Ed.1 (1993-10)	ETSI EN 301 843-5 V2.2.1 (2017-11)
*Applicable to MED5.10 and 5.11 ** Applicable to MED5.14 and 5.15 Compliance of the SAILOR MF/HF System 6000B Compliance is maintained for both versions of the test standard.	



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## 3 Technical Documentation

### 3.1 Declaration of Conformity

99-154171-O Declaration of Conformity SAILOR MFHF 6000B\_500W - MED Modified 2025-05-23

### 3.2 User Guide

98-144591-H March 2022	Installation Manual SAILOR 6000B MF/HF DSC 150W/150W FCC/250W/500W
98-144542-C July 2020	Installation Guide SAILOR 6300 MF/HF Transceiver Unit & Antenna Tuning Unit 150/250/500W
98-132396-B July 2013	Installation Guide SAILOR 630x MF/HF Control Unit
98-130981-B Aug 2013	Installation and User Manual TT-610xA Alarm Panel
98-131070-THR-H Sep 2021	User Manual SAILOR 6300 MF/HF DSC 150W/150W FCC/250W/500W
98-131070-NEU-G Jan 2017	User Manual TT-6300 MF/HF DSC 150W/250W/500W
98-132519-B Oct 2011	User Manual SAILOR 6300 MF/HF Radio Telex
97-147768-C Sep 2021	User Manual SAILOR 6300B MF/HF Service Interface
98-150478-C Sep 2021	Installation Manual SAILOR 6018 Message Terminal
98-151795-B Sep 2021	User Manual SAILOR MF/HF System 6000B Radiotelex

### 3.3 Test Reports

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

T209922	Issued	2015-01-19
E12207.00	Issued	2012-11-19
173410-2	Issued	2011-06-09
75928859 Report 02 Issue 2	Issued	2011-06-09
20103937200 Rev 1.0	Issued	2011-06-22
95-188662-A Corrosion Statement	Issued	2011-01-06
6000B Corrosion Statement	Issued	2015-03-23
406004A Corrosion Statement	Issued	2012-12-19
406018A Corrosion Statement	Issued	2016-04-05
TT-6101/6103	Issued	2010-06-03
E10178.05	Issued	2011-05-04
75934224 Report 06 Issue 1	Issued	2016-08-10
75934224 Report 01 Issue 1	Issued	2016-07-08
75934224 Report 07 Issue 1	Issued	2016-10-05
98735330	Issued	2001-12-17

#### 3.3.2 ETSI EN 301 843-5 V2.2.1

75934224 Report 01 Issue 01	Issued	2016-07-08
75928859 Report 09 Issue 2	Issued	2015-08-06
75928859 Report 10 Issue 1	Issued	2015-07-10
99-166345-A	Issued	2019-02-22

#### 3.3.3 ETSI EN 300 373-1 V1.4.1

75928859 Report 01 Issue 3	Issued	2015-08-05
75928859 Report 05 Issue 3	Issued	2015-08-05
75928859 Report 06 Issue 2	Issued	2015-08-05
75934224 Report 07 Issue 1	Issued	2016-10-05

#### 3.3.4 ETSI EN 300 067 Ed.1 & ETSI EN 300 067/A1 Ed.1

75928859 Report 04 Issue 3	Issued	2015-08-07
75928859 Report 07 Issue 2	Issued	2015-08-05
75928859 Report 11 Issue 2	Issued	2015-08-05
20103937309	Issued	2011-05-31



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## 3.3.5 ETSI EN 301 033 V1.4.1

75928859 Report 08 Issue 1	Issued	2015-07-10
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## 3.3.6 ETSI EN 300 338-1 V1.5.1/1.6.1 & ETSI EN 300 338-2 V1.5.1

20103937307	Issued	2011-05-30
20103937308	Issued	2011-05-30
20103937311	Issued	2011-05-30
N.01.11	Issued	2011-02-04
N.07.16	Issued	2016-07-07
75928859 Report 01 Issue 3	Issued	2015-08-05
75934224 Report 07 Issue 1	Issued	2016-10-05
N 03.19	Issued	2019-03-24
N 19.21	Issued	2021-11-01
99-184597-A	Dated	2023-07-17
99-188388-B	Dated	2025-04-26

## 3.3.7 EN 61162-1 (2016)

75928859 Report 03 Issue 1	Issued	2015-04-30
75934224 Report 05 Issue 1	Issued	2016-07-22
N.01.17	Issued	2017-03-10
99-166345-A	Issued	2019-02-22

## 3.3.8 EN IEC 61162-450 (2018)

96-176713-B	Issued	2021-09-28
96-176714-B	Issued	2021-09-28
75952676 SoT 03 Issue 1	Issued	2021-11-17
75952676 SoT 04 Issue 1	Issued	2021-11-16

## 3.3.9 EN IEC 62923-1 (2018) & EN IEC 62923-2 (2018)

96-176736-C	Issued	2021-10-08
96-176737-B	Issued	2021-09-28
75952676 SoT 01 Issue 1	Issued	2021-11-16
75952676 SoT 04 Issue 1	Issued	2021-11-16

## 3.4 Build Status

### 3.4.1 Hardware

99-173369-D_Software_Hardware_version_MF_HF	Dated	2025-05-13
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### 3.4.2 Software

MFHF System 6000B CU/TU	Version 2.24
SAILOR 6018 Message Terminal	Version 1.09
SAILOR 6006 Message Terminal	Version 1.09

## 3.5 Notes

Note 1 SAILOR is the brand name for Cobham SATCOM maritime products manufactured by Thrane & Thrane A/S.

Note 2 (EU)2024/1975 gives a last placing on board date of 10/10/2026 for equipment approved against the test standards listed above. See Conditions of Validity.

Note 3 The product(s) listed meet(s) the requirements of IEC 62923-1 for EUT function type P

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, Certification, Validation and Verification Regulations.



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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:

A handwritten signature in black ink, appearing to read 'Andy Little'.

(Andy little)

Date:

03/07/2025

On behalf of TÜV SÜD DANMARK ApS