

# EC TYPE EXAMINATION CERTIFICATE

## MED-B-21521

In compliance with Module B of Council Directive 2014/90/EU of the European Parliament and included the Commission Implementing Regulation (EU) 2021/1158 of 22 June 2021, this certificate is issued to the manufacturer:

**Thrane & Thrane A/S**  
**Lundtoftegaardsvej 93 D**  
**DK-2800 Kgs. Lyngby, Denmark**

And applies to the product

**VHF DSC Class A**  
**VHF DSC watch-keeping receiver**  
**SAILOR 7222 VHF DSC Class A**

This certificate attest that provisions according to type examination requirements given in

SOLAS 74 as amended, Regulation, IV/7, IV/14, X/3	MED/5.1
IMO Res.A.385(X),	IMO MSC/Circ.862
IMO Res.A.524(13),	IEC 60945:2002 incl. IEC 60945 Corr. 1:2008
IMO Res.A.694(17)	IEC 61097-3: 2017
IMO Res.A.803(19)	IEC 61097-7: 1996 with A1: 2018
IMO Res. MSC.36(63)-(1994 HSC code) 14	IEC 61162-1:2016
IMO Res. MSC.97(73)-(2000 HSC code) 14	IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11 and A2 Ed. 1.0:2014-07
IMO Res.MSC.302(87),	IEC 62923-1:2018
IMO MSC.1/Circ.1460,	IEC 62923-2:2018
IMO COMSAR Circ.32	
ITU-R M.489-2 (10/95)	MED/5.2
ITU-R M.493-15 (01/19)	IEC 60945:2002 incl. IEC 60945 Corr. 1:2008
ITU-R M.541-10 (10/15)	IEC 61097-3: 2017
	IEC 61097-8: 1998
	IEC 61162-1:2016
	IEC 61162-3 Ed.1.2 Consol. with A1 Ed. 1.0:2010-11 and A2 Ed. 1.0:2014-07
	IEC 62923-1:2018
	IEC 62923-2:2018

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to and agreed upon with Nemko. Software changes and updates: - See Product description in the Annex. Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to them being placed on board vessels to which the amended regulations or standards apply.

The attached Schedule of Approval forms part of this certificate. The certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Oslo, 2021-12-27

Date of expiry: 2026-12-26

Notified Body Id. no. 0470  
Nemko AS  
Philip Pedersens vei 11,  
1366 Lysaker, Norway



Roy Uggerud  
Nemko AS

## Annex I to EC Type-Examination Certificate, No. MED-B-215221

### SCHEDULE OF APPROVAL

#### Product description

The product covered by this certificate are marketed under the brand SAILOR 7222 VHF DSC Class-A

The EC Type-Examination Certificate covers the products listed below.

Software version for S7224 VHF TU and S7226 CU: 1.04

Software version format x.yy. Minor software changes, indicated by increasing .yy, are given with a notification to Nemko.

Major software changes, indicated by increasing x, must be recorded and documentation must be provided to Nemko for review and acceptance before implementation.

Item no.	Type	Designation	Manufacturer
1	TT-7224A	SAILOR 7224 VHF DSC CU	Thrane & Thrane A/S
2	TT-7226A	SAILOR 7226 VHF Transceiver Unit	Thrane & Thrane A/S
3	TT-6201A	SAILOR 6201 Handset	Thrane & Thrane A/S
4	TT-6204A	SAILOR 6204 Control Speaker Microphone	Thrane & Thrane A/S
5	TT-6207A	SAILOR 6207 Accessory Connection box	Thrane & Thrane A/S
6	TT-6208A	SAILOR 6208 CU Connection box	Thrane & Thrane A/S
7	TT-6209A	SAILOR 6209 Accessory Connection box	Thrane & Thrane A/S
8	TT-6103A	SAILOR 6103 Multi Alarm panel	Thrane & Thrane A/S

**Note:** Power supplies are not a part of the GMDSS system.

Previous wheel marked power supplies or any other 60945 approved power supplies are therefore allowed.

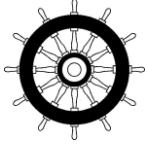
#### Limitations

The Ethernet port from the Transponder Unit uses proprietary protocol is not intended to be connected to a ship network.

#### Type approval documentation

Document	Document no.	Rev.	doc. no
Test Report Nemko: EN 60945 testing of SAILOR 7222 VHF DSC Class A VHF DSC watch-keeping receiver	E.21110.00	00	001
Test Report Nemko: SAILOR 7222 IEC 61097 test report	433520-01 TRF IEC61097	00	002
Test Report Nemko: SAILOR 7222 IEC 61162 test report	433520-02 TRF IEC 61162	00	003
Test Report Nemko: SAILOR 7222 IEC 62923 test report	433520-03 TRF IEC 62923	00	004
EU Declaration of Conformity	99-178713-A	A	006
Type Label layout Sailor 7224	99-164775-E	E	007
Type Label layout Sailor 7226	99-164776-D	D	008
Software and Hardware Revisions SAILOR 7224 VHF DSC Control Unit	407224A-00500	B.15	009
Software and Hardware Revisions SAILOR 7226 VHF Transceiver Unit	407226A-00500	A.19	010
Manual Cobham: Installation guide SAILOR 7224 Control Unit VHF DSC	98-173211-B.03	03	011
Manual Cobham: Installation guide SAILOR 7226 VHF DSC Transceiver Unit	98-164939-A.02	02	012
Manual Cobham: User manual SAILOR 7222 VHF DSC	98-171832-A	2021-07-02	013

**Limitations/restrictions**



"The Mark of Conformity" (i.e. the Wheel mark) 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 (Production Quality Assurance), E (Product Quality Assurance), or F (Product Verification), of Annex B of the Directive (MED) is fully complied with and controlled by a written inspection agreement with a notified body."

----- End of certificate -----