

## EC TYPE EXAMINATION CERTIFICATE

MED-B-18041

In compliance with Module B of Council Directive 2014/90/EU of the European Parliament and included the Council Regulation (EU) 2018/773 of 15 May 2018, this certificate is issued to the manufacturer:

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

And applies to the product

**Portable survival craft VHF radiotelephone**  
**SAILOR SP3520 VHF GMDSS**

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

SOLAS 74 as amended, Regulation III/6, IV/14, X/3  
IMO Res. MSC.36(63)-(1994 HSC code) 8  
IMO Res. MSC.36(63)-(1994 HSC code) 14  
IMO Res. MSC.97(73)-(2000 HSC code) 8  
IMO Res. MSC.97(73)-(2000 HSC code) 14  
IMO Res.A.694(17)  
IMO Res.A.809(19)  
IMO Res. MSC.149(77)  
ITU-R M.489-2 (10/95)

EN 60945 (2002) incl. IEC 60945 Corr. 1 (2008)  
ETSI EN 300 225 v1.5.1 (2015-12)  
ETSI EN 301 843-2 v2.1.1 (2016-03)

The equipment also complies with  
EN 61097-12 (1996) + A1:2017

This certificate replaces certificate no MED-B-18041 Rev. 01, which is revoked.

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, 2019-03-20

Date of expiry: 2023-12-11

Notified Body Id. no. 0470  
Nemko AS  
P.O. Box 73 Blindern  
NO-0314 Oslo, Norway



Roy Uggerud  
Nemko AS

## Annex I to EC Type-Examination Certificate, No. MED-B-18041

### SCHEDULE OF APPROVAL

#### Product description

Portable Survival craft VHF Radiotelephone

Operating frequency range: Transmitter: 155.000-161.450MHz, Receiver 155.000-163.425MHz

Maximum output power: 2 Watt rated

The products covered by this certificate are marketed under the brand SAILOR

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

Software version: 2.00.xxx

Minor software changes are given version number as shown above, with a notification to Nemko.

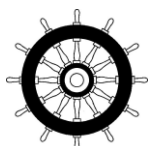
Major software changes, version number e.g. 2.00.xx, must be recorded and documentation must be provided to Nemko for review and acceptance before implementation.

Item no.	Type	Designation	Manufacturer	Option
1	SAILOR SP3520	SAILOR SP3520 VHF GMDSS	Thrane & Thrane A/S	
2	TT-3590A	SAILOR 3590 Hand Microphone	Thrane & Thrane A/S	
3	TT-3595A	SAILOR 3595 Hand Microphone	Thrane & Thrane A/S	

#### Type approval documentation

Document	Document no.	Rev.	doc. no
Cobham: User Manual, SAILOR SP3520 Portable VHF GMDSS	98-124294-J	J	001
Cobham: 3520 Block diagram	HW_Blockdiagram_A	A	002
Cobham: BOM, Product description, assembly drawings, photos, marketing material	---	---	003
Telefication: Test report, EMC based on EN 60945:2002(ed.4)	99788220	5 April 2007	004
Telefication: Test report, based on EN 300 225 v.1.4.1 (2004-12)	99788230	2.0	005
Delta: Test report	Danak-19K0457	15. June 2007	006
Delta: Test report	Danak-19K0469	18. Sept. 2007	007
Nemko: Test report EN 60945 Environmental	E11128.00	00	008
Nemko: Test report EN 60945 EMC	180514	Rev.04	009
Delta: Test report	Danak-19/18030	26 June 2017	010
Cobham: Statement, VHF3520_3540_IEC61097-12+Amend-1_compliance_signed	99-164195-A	29. Sep. 2018	011

#### 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."

## **Annex II to EC Type-Examination Certificate, No. MED-B-18041**

### **Comments**

The SP3520 may also be utilized for on-board communication.

For this purpose, a rechargeable Lithium-ion battery is available.

Following specialized accessories have been part of the type approval test and can be used together with the Sailor 3520.

Rechargeable lithium battery with battery charger, model CH3507, in combination with AC/DC switching power adapter model OH-1048A1200500U-VDE or OH-1048A1201200U-VDE.

Dual battery charger model CH3508, in combination with AC/DC switching power adapter, model OH-1048A1201200U-VDE.

Interface cable Savox 400E in combination with Savox NC/400 headset, Savox HC-E helmet unit or Savox HC1 helmet unit

Interface cable Savox C500 in combination with Savox NC/400 headset, Savox HC-E helmet unit or Savox HC1 helmet unit.

Interface cable Peltor FL5214 in combination with Peltor MT7H79 headset.

3595 Handset with Peltor Headset MT7H79

3595 Handset with Savox Skull Headset

3590 Handset with OTTO Throat Microphone

Rev A 2013-02-02: Model name typo in certificate and user manual document reference.

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