

EC TYPE EXAMINATION CERTIFICATE

MED-B-18042

In compliance with Module B of Council Directive 2014/90/EU of the European Parliament and included the Council Regulation (EU) 2017/306 of 6 February 2017, 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 (ATEX)
SAILOR SP3540 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 v2.1.0 (2015-12)

The equipment also complies with
EN 61097-12 (1996)

This certificate replaces certificate no MED-B-16292, 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, 2018-01-24

Date of expiry: 2023-01-24

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-18042

SCHEDULE OF APPROVAL

Product description

Portable Survival craft VHF Radiotelephone (ATEX)
 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

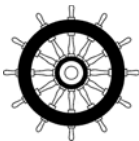
Minor software changes are given version number as shown above, with a notification to Nemko.
 Major software changes, version number e.g. 2.00.xx, must be recorded and documentation must be provided to Nemko for review and acceptance before implementation.

Item no.	Type	Designation	Manufacturer	Option
1	SAILOR SP3540	SAILOR SP3540 VHF GMDSS (ATEX)	Thrane & Thrane A/S	
2	TT-3590A	SAILOR 3590 Handset	Thrane & Thrane A/S	
3	TT-3595A	SAILOR 3595 Handset	Thrane & Thrane A/S	

Type approval documentation

User Manual : SAILOR SP3540 Portable VHF ATEX GMDSS : 98-124307-J
 3540 Block diagram: HW_ATEX_VHF_Blockdiagram_A
 BOM, Product description, assembly drawings, photos, marketing material
 Telefication Test report no.:20082907200 EMC based on EN 60945:2002(ed.4) Dated 29 October 2008.
 Telefication Test report no.:20083516300 EMC based on EN 300 225 v.1.4.1 (2004-12) Dated 19.Jan 2009
 Telefication Test report no.:99788220 based on EN 300 225 V1.4.1 (2004-12). Dated 5 April 2007
 Telefication Test report no.:99788230 rev 2.0 based on EN 300 225 V1.4.1 (2004-12). Dated 3 April 2007
 Delta: Danak-19K0457, 15. June 2007
 Delta: Danak-19K0469, 18. September 2007
 Nemko Test report no.: E11128.00 EN 60945 Environmental
 Nemko Test report no.: 180514 EN 60945 EMC
 Delta: Danak-19/18030, 26 June 2017

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-18042

Comments

The SP3540 may also be utilized for on-board communication.
For this purpose, a rechargeable 1800mAh Lithium-ion battery model B3504 is available.

Following specialized accessories have been part of the type approval test and can be used together with the Sailor 3540.

Rechargeable lithium battery with battery charger, model CH3505 or 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 400AVL in combination with Savox Noise-com NC/400 headset or Savox HC-E 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 FL5261 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 -----