



Marine Equipment Directive Module B Type Examination Certificate

This is to certify that TÜV SÜD BABT did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive 96/98/EC as amended by Commission Directive 2014/93/EU and that the equipment of

Thrane & Thrane A/S

of

Lundtoftegaardsvej 93 D
DK-2800 Kgs. Lyngby
Denmark

known as

**SAILOR 6280 &
SAILOR 6281**

conform to the relevant requirements for the following equipment as listed in Marine Equipment Directive:

Annex A.1/4.32 Universal Automatic Identification System Equipment (AIS)

as defined in Commission Directive 2014/93/EU

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

Signed:

Issue Date: 29 September 2015

On Behalf of TÜV SÜD BABT

Number: BABT-MED000046 Issue: 03

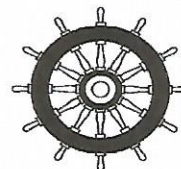
This certificate has been issued in accordance with the Certification Regulations of TÜV SÜD BABT (Notified Body Number 0168) and constitutes page 1 of the combined Certificate and Annex

This certificate is valid from 29 September 2015 until not later than 22 July 2018

The Conditions for the validity of this certificate are listed in the Annex.
For further details related to this certification please contact BABT@TUV-SUD.co.uk

TÜV SÜD BABT • TÜV SÜD Group

Octagon House • Concorde Way • Fareham • Hampshire • PO15 5RL • United Kingdom



0168



Annex to

Marine Equipment Directive Module B Type Examination Certificate

Description of Equipment

Automatic Identification System (AIS)

Models: SAILOR 6280 AIS System*
SAILOR 6281 AIS Basic System*

System Components:

		SAILOR 6280	SAILOR 6281
SAILOR 6282 (TT-6282A)	AIS Transponder	X	X
SAILOR 6285 (TT-6285A)	GPS Antenna - Active	X	X
SAILOR 6283 (TT-6283A)	AIS Connection Box incl. Wall Tray	X	-
SAILOR 6004 (TT-6004A)	Control Panel	X	X

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

Compliance Matrix For MED Item A.1/4.32

IMO Resolutions	International Testing Standards	
IMO Res. MSC 74(69) ITU-R M. 1371-4 (2010)	IEC 61993-2 Ed.2 (2012)	Maritime navigation and radiocommunication equipment and systems –Automatic identification systems (AIS) Part 2: Class A shipborne equipment of the automatic identification system (AIS)
	IEC 61162-1 Ed.2 (2010)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 1: Single talker and multiple listeners
	IEC 61162-2 Ed.1 (1998)	Maritime navigation and radiocommunication equipment and systems — Digital interfaces Part 2: Single talker and multiple listeners, high-speed transmission
IMO Res. A.694(17)	IEC 60945 Ed.4 (2002)	General Requirements for Marine Navigation Equipment" (Inc. Corr1:2008)
IMO Res. MSC.191(79)	IEC 62288 Ed.1 (2008)	Presentation of navigation-related information

Manufacturer:

Name: As Holder
Address: As Holder



Relevant Technical Documentation

Supplier's Declaration(s) of Conformity:

DOC for wheelmark equipment 99-113177-N, 2014-02-21

User Guide:

SAILOR 6280/6281 AIS System User Manual, Document No. 98-135323-B, 2013-07-12

SAILOR 6280/6281 AIS System User Manual, Document No. 98-135323-C, 2014-03-12

SAILOR 6280/6281 AIS System Installation Manual, Document No. 98-137573-B, 2013-07-24

Test report numbers:

IEC 61993-2 (2012):	75921133 Report 03 Issue 2, 2013-06-13 N 08.13, 2013-07-18 N.01.14, 2014-01-08 75925043 Report 01 Issue 2, 2014-03-04 ^{Note 1}
IEC 60945 (2002): inc Corr 1 (2008)	E12207.00, 2012-11-19 75921133 Report 01 Issue 1, 2013-07-15 75921133 Report 11 Issue 2, 2013-07-04 75921133 Report 09 Issue 3, 2013-07-05 Corrosion Statement, 2013-03-07 A694(17) Operational Inspection, 2013-06-05
IEC 62288 (2008):	Inspection to IEC62288:2008, 2013-06-05
IEC 61162-1 (2010):	75921133 Report 04 Issue 1, 2013-07-10
IEC 61162-2 (1998):	75921133 Report 05 Issue 1, 2013-07-10

Approved Software: AIS Version 2.00^{Note 2}

Approved Hardware :

Circuit Diagram:	TT-AIS-A-Transponder 93-135110-G, 2013-02-14 GPS Active Antenna 93-135355-C, 2013-12-05
Parts List:	60-135110-E, 2013-05-27 (AIS Transponder) 57-135355C, 2013-05-28 (GPS Antenna)

NOTES:-

- 1 Test Report 75925043 Report 01 Issue 2 also covers testing against CCNR Test Standard Inland AIS: Edition 2.0, however Inland Waterways approval is outside of the scope of this certificate.
- 2 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the Certification Regulations of TÜV SÜD BABT.

U.S. Coast Guard Number :

This product has been assigned U.S. Coast Guard Module B number

165.155/EC0168/BABT-MED000046

To note type approval to Module B only as it pertains to obtaining US Coastguard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004



Conditions of Validity

This issue of the Annex to the referenced Marine Equipment Module B Certificate relates to Issue 3 of the Certificate.

The assessed equipment is also in compliance with Directive 96/98/EC as amended by Commission Directive (EU) 2015/559, this Module B Certificate is also valid under that amendment.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TÜV SÜD BABT or a person appointed by TÜV SÜD BABT to perform that role.

Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on board vessels to which the amended regulations or standards apply.

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 ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body."

Signed: L. J. Turpin
on behalf of TÜV SÜD BABT

Date: 29th September 2015