



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. A-9141
This Certificate consists of 4 pages

This is to certify that the
Ship Security Alert System

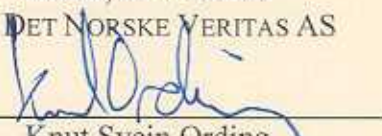
with type designations
**Skanti Scansat Mini-CTM SSA, Sailor H3000M Mini-C,
DEBEG 3200 SSAS Mini-C**

Manufactured by
Thrane & Thrane A/S
Kgs. Lyngby, Denmark

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det
Norske Veritas' Offshore Standards
ISPS Code - SOLAS Chapter XI-2 Regulation 6 Ship Security Alert System
IMO Resolution MSC.147(77) Revised Performance Standards for a Ship Security Alert
System
IEC 60945 Rev. 4 (2002-08) Maritime navigation and radiocommunication equipment and
systems - General requirements - Methods of testing and required test results

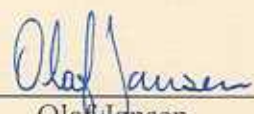
Application
Approved for SOLAS Ch.IV Sea Areas A1-A2-A3

Place and date
Høvik, 2004-06-08
for DET NORSKE VERITAS AS


Knut Svein Ording
Head of Section



This Certificate is valid until
2008-06-30


Olaf Jansen
Surveyor

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: A-9141
 File No.: 849.01
 TAA4107

Holder of certificate

EuroCom Industries A/S
 Aalborg, Denmark

Product description

Hardware:

Skanti Scansat Mini-CTM SSA				
Transceiver / antenna	Alert Buttons (2 units required)	Test Button (1 unit required)	Cable kit	Inter-connection Box
TT-3026M easyTrack, Inmarsat mini-C transceiver	Covert Alert Button Opt. 911	Test Button Opt. 912	Transceiver Connection Cable, 20 or 50 meter	TT-3616B
TT97-114049	TT97-120210	TT97-120211	TT37-115658-A or TT37-203086-A	TT97-116006

Sailor H3000M SSA Mini-C				
Transceiver / antenna	Alert Buttons (2 units required)	Test Button (1 unit required)	Cable kit	Inter-connection Box
TT-3026M easyTrack, Inmarsat mini-C transceiver	Covert Alert Button Opt. 911	Test Button Opt. 912	Transceiver Connection Cable, 20 or 50 meter	TT-3616B
TT97-114049	TT97-120210	TT97-120211	TT37-115658-A or TT37-203086-A	TT97-116006

DEBEG 3200 SSA Mini-C				
Transceiver / antenna	Alert Buttons (2 units required)	Test Button (1 unit required)	Cable kit	Inter-connection Box
TT-3026M easyTrack, Inmarsat mini-C transceiver	Covert Alert Button Opt. 911	Test Button Opt. 912	Transceiver Connection Cable, 20 or 50 meter	TT-3616B
TT97-114049	TT97-120210	TT97-120211	TT37-115658-A or TT37-203086-A	TT97-116006

A. Lovset



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Software version:

2.11

Configuration tool:

Any standard Laptop PC with HyperTerminal or equivalent

Application/Limitation

The Sea Areas referred to on page 1 are as defined in SOLAS Chapter IV Regulation 2.

The SSAS is to be used according to the manufacturer's guidelines and is not to be used in areas requiring intrinsically safe equipment.

Type Approval documentation

- Thrane & Thrane: TT-3000SSA Installation Manual, TT-98-120343-C, Release Date: 19 February 2004, and the alternative manuals for the rebadged systems: Skanti Scansat Mini-CTM SSA : M3000M GB9, Sailor H3000M Mini-C : M3000M GB0 & DEBEG 3200 SSAS Mini-C : M3000M GB5
- Delta: Report – Type approval testing of TT-3000SSA Capsat Ship Security Alert System, 19 February 2004
- Danish Technological Institute: Test Report – Corrosion Test TT-3000SSA, 3 October 2003

Tests carried out

- IEC 60945 Ed. 4 (2002-08) Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results.
- Det Norske Veritas' SSAS Type Approval Programme, Appendix A, Performance Tests
- IMO Resolution MSC.147(77) Revised Performance Standards for a Ship Security Alert System

Marking of product

The products are to be clearly marked with the type as described above and CE marking.

A. Kvarn



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Certificate retention survey

The scope of the retention/renewal survey is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials. The main elements of the survey are:

- Ensure that type approved documentation is available.
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines.
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications.
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given.
- Ensuring traceability between manufacturer's product type marking and the type approval certificate.

Survey to be performed at renewal of this certificate.

END OF CERTIFICATE

A. Lovas