



# Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 20 241 - 04 HH

Company Thrane & Thrane A/S  
Lundtoftegardsvej 93 D  
DK-2800 Lyngby

Product Description Ships Security Alert System

Type TT 3000SSA

Environmental Category C; F (transceiver); EMC1

Technical Data / Range of Application Ship Security Alert System (SSAS) based on Inmarsat-miniC equipment with an integral GPS receiver consisting of:  
- Transceiver unit TT-3026M  
- Interconnection box TT-3616B  
- Security alert button Opt 911  
- Test button Opt 912

Power Supply: 10.5 - 30 V DC, 4 A (max.)

Software Version: V 2.11  
Tests and evidence according to Requirement Class 1.

Test Standard IMO Res. MSC.147(77); MSC/Circ.1072; IEC 60945 (2002);  
Guidelines for the Performance of Type Approvals, Part 2 (2003).

Documents Test reports: DELTA-E501623-2; DTI ref. 1184504; TT99-120352-A; TT95-120306-A;  
TT95-120319-A; TT95-120320-A; TT95-120321-A.  
Documents: Manual 98-120343, Rev.C; Drawings TT97-114049, -116006, -120211, -  
120210, -115656-A; Inmarsat Cert. 4TT091; LR Cert. 03/7004.

Remarks None

Valid until 2009-02-28

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Type Approval Symbol



File No. I.E.03

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