



# 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.	2023604 HH
Company	Satamatics Ltd. Miller Court Severn Drive Tewkesbury Business Park Tewkesbury, Gloucestershire GL20 8DN, UNITED KINGDOM
Product Description	Ship Security Alert System (SSAS)
Type	Ocean Alert
Environmental Category	C (terminal); F (antenna); EMC1
Technical Data / Range of Application	Ship Security Alert System (SSAS) based on Inmarsat-D+ equipment, type SAT-101, with an integral GPS receiver consisting of: - Antenna unit, p/n B005B02 - Terminal unit, p/n B011B01 - Integral back-up battery pack, p/n B003B02 - Security alert button, p/n B012B01  Power Supply: 9.6 to 30 V DC, 1.5 A  Software Version: MSP Firmware - SWN-0007-20_V00-25.hex DSP Firmware - SWN-0007-15_V00-25.sr Ocean Alert Script - scr0027.dat 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 report : SU2536/4907; SU2548/5240; SU2499/5168; 03/228/NP; EL3158/7901, issue 2; SU2422/4418; RU1056/4491. Certificates: EL3117/7886; Inmarsat type approval DST001. Documents: User/Installation Manual, Issue No. B-Dec 03, Rev. No. 02.
Remarks	None
Valid until	2014-04-05
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File No.	I.E.03
Hamburg,	2009-04-06

Type Approval Symbol



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Jürgen Wittburg

Hartmut Kuhn

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".