



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. **20 501 - 04 HH**

Company **Furuno Electric Co., Ltd.
9-52 Ashihara-cho
Nishinomiya 662-8580, Japan**

Product Description **Ship Security Alert System**

Type **FELCOM 15 SSAS**

Environmental Category **C; F (antenna); EMC1**

Technical Data /
Range of Application **Ship Security Alert System (SSAS) based on Inmarsat-C consisting of:**
- Antenna unit, IC-115
- Terminal unit, IC-215
- Junction box, IC-315
- SSAS alert unit, IC-307
- Keyboard, BTC5100C PS/2
Option:
- GPS receiver, OP16-24

Power supply: 12 - 24 V DC, 140 W (max.)

Software Version:
1650159-03 (DCE)
1650162-03 (DTE)
Test 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: FLI 12-02-047, dated 2002-11-25; Inmarsat T.A.P. No. TA-04-089-03
Manuals: Operator's Manual (Inmarsat-C) OME-56350-Edition F1; Installation
Manual IME-56350-Edition C; Operator's Manual (SSAS) OME-56351-Edition A;
Telefication Cert. No. 02212011/AA/00, Inmarsat Cert. No. IT-04-089-01**

Remarks **None**

Valid until **2009-05-11**

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Type Approval Symbol



File No. I.E.03

Hamburg, 2004-05-12

Germanischer Lloyd

J. Wittburg

H. Kuhn

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