



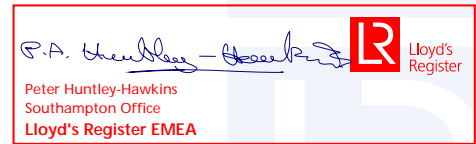
Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No.11/ 70010 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Thrane & Thrane A/ S Trading as Cobham Satcom Lundtoftegaardsvej 93D 2800 Kongens Lyngby Denmark
PLACE OF PRODUCTION	Thrane & Thrane A/ S Trading as Cobham Satcom Lundtoftegaardsvej 93D 2800 Kongens Lyngby Denmark
DESCRIPTION	Ship Security Alert system based on Inmarsat mini-C services with Thrane & Thrane SAILOR Ship Alert Messages routed through message protocol and allowing up to three destinations to be addressed. SSA is an add on to an existing GMDSS installation. Option 913 is for latched alarm push buttons for International variant. Option 916 is for instantaneous activated alarm push buttons required for the US variant.
TYPE	TT-6110A-913 and TT-6110A-916 options comprises the following main components, -Thrane 6194A Terminal Control Unit -Alert buttons (2 off) w/ cable, International or US -Test button (1 off) w/ cable, international or US -Tee- connections to an existing GMDSS installation
APPLICATION	Marine and Offshore applications for use in environmental categories ENV2 in "Bridge and Deck Zone" as defined in LR Specification No.1, 2002 where the test specification is satisfactory for the intended operation
Certificate No.	11/ 70010(E1)
Issue Date	26 July 2016
Expiry Date	25 July 2021
Sheet	1 of 2



Peter Huntley-Hawkins
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's
Register

ADDITIONAL TESTS

Extreme Power Supply
Compass Safe Distance
Acoustic Noise and Signals
Ingress Protection
Salt Mist / Corrosion

STANDARD



Res MSC: 136(76) Recommendation on Performance Standard for a Ship Security Alert System
Res MSC: 147(77) Revised Recommendation on Performance Standard for a Ship Security Alert System
IEC60945

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No.11/70010(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No.11/70010 to which this extension should be attached.

Certificate No. 11/ 70010(E1)
Issue Date 26 July 2016
Expiry Date 25 July 2021
Sheet 2 of 2


 Lloyd's Register
Peter Huntley-Hawkins
Southampton Office
Lloyd's Register EMEA
LR031.1.2016.06

Peter Huntley-Hawkins
Marine Technology & Engineering Services, Southampton
Lloyd's Register EMEA

*Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS*

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.