

Type Approval Certificate

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

Manufacturer	Thrane & Thrane A/S Trading as Cobham SATCOM
Address	Lundtoftegaardsvej 93D, Kongens Lyngby, 2800, Denmark
Place of Production	SVI Thailand 141-142 Moo 5, Tiwanon Rd., Bangkadi, Muang, Pathumthani 12000 Thailand
Type	Control Systems - Ships Security Alert System
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.
Trade Name	TT-6110A-913 and TT-6110A-916
Application	Marine and Offshore applications for use in environmental categories ENV2 in "Bridge and Deck Zone" as defined in LR Test Specification No.1:2021 where the test specification is satisfactory for the intended operation
Specified 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 IEC 60945

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Ratings	TT-6110A-913 and TT-6110A-916 options comprises the following main components: <ul style="list-style-type: none">- 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
Additional Tests	Extreme Power Supply Compass Safe Distance Acoustic Noise and Signals Ingress Protection Salt Mist / Corrosion

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.

Previous Version: 11/70010(E1)

The Design Appraisal Document LR2209569TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.