



# Certificate of Type Approval

(Iridium Certificate of Type Examination)  
(Global Maritime Distress and Safety System GMDSS)

<b>Applicant:</b>	<b>Manufacturer:</b>
Lars Thrane A/S (known as LT) Skovlytoften 33 2840 Holte Denmark	Lars Thrane A/S Skovlytoften 33 2840 Holte Denmark

This is to certify the applicant has submitted the details of a:-

**GMDSS Ship Earth Station on Iridium Network conforming to IEC61097-16(2019)**

Of the type known and designated as:-

**Lars Thrane LT-3100S**

Comprising of component parts:-

**LT-3110S Control Unit with Firmware revision LT-3100S-v1.01R-0013**

**LT-3120 Handset**

**LT-3121 Cradle**

**LT-3130S Antenna Unit**

**LT-3140S Interface Unit**

**LT-3150S Alarm Panel**

**LT-3160S Printer Adapter**

These have been assessed, tested by LT, Iridium and third party notified body for certain tests and when used as a combination of component parts, is CERTIFIED as complying with the relevant parts of:

**GMDSS Ship Earth Station IEC 61097-16:2019**

Being operational requirements – Methods of testing and test results, performance specification, published by the International Electrotechnical Commission as IEC61097-16(2019) were followed.

<b>Signed:</b>  Alden J. Fuchs, Authorized Signatory	<b>Date of Issue: December 1 2019</b> <b>Date of Expiry: December 2 2024</b> <b>Certificate number: IR-GMDSS_001</b>
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This certificate is valid until the Expiry date above, or a change in LT-3110S Firmware revision recorded above that is required to be deployed to operational ships, shall trigger a retest for the IEC61097-16(2019) test cases as specified by Iridium. Only if a major Hardware change is made that affects any of the testing completed by third parties will that testing need to be redone.

