

Annex to Marine Equipment UK Conformity Assessment Module B Type Examination Certificate

1 Equipment Description

SAILOR 6110 mini-C GMDSS System

1.1 Models

| Model |
|--------------------------|
| SAILOR 6110 GMDSS System |

1.1.1 System Components

| Model | Description |
|----------|-------------------------------|
| TT-3027C | SAILOR 3027 GMDSS Terminal |
| TT-6018 | SAILOR 6018 Message Terminal |
| TT-6001A | SAILOR 6001 Keyboard |
| TT-6101A | SAILOR 6101 Alarm Panel |
| TT-6103A | SAILOR 6103 Multi Alarm Panel |
| TT-1252B | SAILOR 1252 Printer |
| TT-3608A | SAILOR 3608 Printer |
| TT-6080A | SAILOR 6080 Power Supply |
| TT-6081A | SAILOR 6081 PSU and Charger |

1.1.2 Optional Components

| Model | Description |
|----------|------------------------------|
| TT-6197A | SAILOR 6197 Ethernet Switch |
| TT-6194A | THRANE 6194 Term. Ctrl. Unit |

1.2 Software ^{Note 1}

| Identity | Description |
|--------------|-------------|
| Version 1.08 | TT-3207 |
| Version 1.05 | TT-6018 |
| Version 1.07 | TT-6194 |

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2 Assessed Requirements

2.1 MSN 1874 Amendment 6 Annex 1

2.2 Compliance Requirements for UK/5.4 and UK/5.13 Note 2, 3 & 4

| IMO Resolutions | International Testing Standards | |
|--|--|---|
| IMO Res.A694(17) IMO Res.A570(14) IMO Res.A.644(16) IMO Res.A.807(19) | IEC 60945:2002 inc. Corr.1:2008 | Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results |
| IMO Res.MSC.306(87) IMO Res.MSC.302(87) IMO MCS/Circ.862 IMO COMSAR/Circ.32 | IEC 61097-4 (2012) + Amendment 1 (2016) + Amendment 2 (2019) | Global maritime distress and safety system (GMDSS) – Part 4: Inmarsat-C ship earth station and Inmarsat enhanced group call (EGC)equipment |
| In addition: IMO Res. MSC.263(84) IMO Res. MSC.431(98) | IEC 61162-1:2016 | Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 1: Single talker and multiple listeners |
| | IEC 62923-1:2018 | Maritime navigation and radiocommunication equipment and systems - Bridge alert management - Part 1: Operational and performance requirements, methods of testing and required test results |
| | IEC 62923-2:2018 | Maritime navigation and radiocommunication equipment and systems - Bridge alert management - Part 2: Alert and cluster identifiers and other additional features |

3 Technical Documentation

3.1 Declaration of Conformity

99-182782-A Declaration of Conformity Modified 2022-12-13

3.2 User Guide

98-154172-C02 SAILOR 6110 mini-C GMDSS User manual Dated 2019-11-28
 98-154173-B02 SAILOR 6110 mini-C GMDSS Installation manual Dated 2019-11-26
 98-130981-B SAILOR 6101 and 6103 Alarm Panel Installation and user manual Dated 2013-08-22
 98-150478-C SAILOR 6018 Message Terminal Installation manual Dated 2021-09-07
 98-130980-E SAILOR 6081 Power Supply Unit Installation manual and Charger Dated 2019-10-25

3.3 Test Reports

3.3.1 IEC 61097-4:2012 + Amendment 1:2016 + Amendment 2 (2019)

75934224 Report 01 Dated 2016-07-08
 75934224 Report 06 Issue 01 Dated 2016-08-10
 DANAK 100/2207 Dated 2016-10-12
 E10178.05 Dated 2011-05-04
 E11125.02 Dated 2011-10-17
 99-149841-C Dated 2021-12-02

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| | | |
|-------------|-------|------------|
| 99-149841-D | Dated | 2016-01-22 |
| 99-154017-A | Dated | 2016-10-14 |
| 99-162640-A | Dated | 2018-07-17 |
| 99-167238-B | Dated | 2019-11-12 |
| 15875/2 | Dated | 2011-02-04 |
| 741021 | Dated | 2018-09-24 |

3.3.2 IEC 60945:2002 inc. Corr.1:2008

| | | |
|-------------------------------|-------|------------|
| 75934224 Report 01 | Dated | 2016-07-08 |
| 75934224 Report 06 Issue 01 | Dated | 2016-08-10 |
| DANAK 100/2207 | Dated | 2016-10-12 |
| E10178.05 | Dated | 2011-05-04 |
| E11125.02 | Dated | 2011-10-17 |
| Cobham_Corr statement 406018A | Dated | 2016-04-05 |
| Waiver_Salt_Mist_Test | Dated | 2011-01-06 |

3.3.3 IEC 61162-1 (2016) & IEC 62923-1/-2 (2018)

| | | |
|-----------------------------|-------|------------|
| 75934224 Report 05 Issue 01 | Dated | 2016-07-22 |
| 75930992 Report 01 | Dated | 2015-10-27 |
| 387406 | Dated | 2019-11-26 |
| 99-167238-B | Dated | 2019-11-12 |

3.4 Build Status

3.4.1 Hardware

| | | |
|---|----------|------------|
| 92-129693 3027A Mini-C Transceiver HW Block Diagram | Dated | 2011-01-26 |
| 92-132539-A | Dated | 2010-10-07 |
| Parts List | Dated | 2022-11-10 |
| BOM TT-3027 | Dated | 2022-11-10 |
| 93-132867-i | Modified | 2018-01-26 |
| 93-132866-C | Modified | 2016-04-11 |
| 93-147948-A | Modified | 2016-10-18 |
| BOM 406018A | Modified | 2016-10-19 |

3.5 Notes

- Note 1 This approval remains valid for equipment including subsequent minor software amendments which have been formally accepted in accordance with the TÜV SÜD Testing and Certification Regulations
- Note 2 As interpreted by the Inmarsat Organisation in their System Definition Manual for Inmarsat C.
- Note 3 This certificate is issued in recognition of INMARSAT Certificate 4TT094 and associated Type Approval Particulars (11), dated 07 January 2011. Testing conducted by the INMARSAT Organisation and their issue of certification allows a presumption of conformity to the technical detail of IEC 61097-4. The system approval as an Inmarsat mobile earth station qualifies this equipment for use in the Global Maritime Distress and Safety System (GMDSS).
- Note 4 This item could fulfil the appropriate hardware requirement as part of an SSAS defined in IMO Resolution MSC.147(77). However no International testing standard for this type of equipment has yet been published and such use would be subject to the acceptance of a suitable operating plan. These units have been tested with the above equipment and are recognised as compliant with the relevant requirements of IEC 60945: 2002.


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4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TÜV SÜD BABT or a person appointed by TÜV SÜD BABT to perform that role.

Should the specified regulations (international conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through MSN 1874 during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

The Mark of Conformity may only be affixed to the above type approved equipment and a manufacturer's Declaration of Conformity issued when the production-control phase module (D, E, or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body.

Signature: 
(Thomas J. Twynam)

Date: 2023-01-12

On behalf of TÜV SÜD DANMARK ApS