

Marine Equipment UK Assessment Module B Type Examination Certificate

This is to certify that TÜV SÜD BABT UNLIMITED did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, under Annex 1 of the listed Amendment of MSN 1874 for the types of equipment identified.

| | |
|--|--|
| MSN 1874 Amendment | Amendment 6 |
| Certificate Holder and Manufacturer | Ocean Signal Limited Unit 4 Ocivan Way Margate Kent, CT9 4NN United Kingdom |
| Product(s) | SafeSea S100 |
| Product Sector | Navigation Equipment |
| Product Type | UK/4.18 Search and rescue locating devices (SRLD): 9GHz SAR Transponder (SART) |

and on the basis of the Technical Data and information detailed in the Annex to this certificate.

T. J. Twynam

Valid from: 05 August 2022

(Tom Twynam)

Expiry Date: 21 September 2025

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex.
The Conditions for the validity of this certificate are listed in the Annex.
For further details, related to this certification please contact BABT@tuvsud.com

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

1 Equipment Description

Search and rescue locating devices (SRLD): 9 GHz SAR transponder (SART)

1.1 Models

| Model |
|--------------|
| SafeSea S100 |

1.2 Product Components

| Identity | Description |
|----------|------------------------|
| S100 | SART Main Unit |
| LB3S | Battery Unit (Li/FeS2) |

2 Assessed Requirements

2.1 MSN 1874 Amendment 6 Annex 1

2.2 Compliance Requirements for UK/4.18

| IMO Resolutions | International Testing Standards | |
|---|--|---|
| IMO Res. A.694(17) | IEC 60945:2002 incl. IEC 60945 Corr. 1:2008 | Maritime navigation and radiocommunication equipment and systems — General requirements |
| IMO Res. A.530(13) IMO Res. A.802(19) ITU-R M.628-5 | IEC 61097-1 (2007) | Global maritime distress and safety system (GMDSS) — Part 1: Radar transponder — Marine search and rescue (SART) |

3 Technical Documentation

3.1 Declaration of Conformity

S100 Declaration of Conformity UK Modified 2022-06-13

3.2 User Guide

912S-00678 S100 SART User Manual rev 01.20 Modified 2022-06-14

3.3 Test Reports

10/591 Issued 2010-09-23

3.4 Build Status

3.4.1 Hardware

SART Circuit Diagram 910S-00156 Issue 01.00 Dated 2010-10-05
General Assembly 900S-00541 Issue 03.00 Dated 2012-01-06
PCB Assembly 800S-00156 Issue 02.00 Dated 2013-02-06

3.4.2 Software

Firmware 500S-00740 Issue 01.00

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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 In accordance with IEC 61097-1, Clause 6.7, it has been determined that the SafeSea S100 operates correctly when interrogated at a distance of up to at least 7.1 nautical miles by a navigation radar complying with IMO Resolution A.477(XII) and A.222(VII) with an antenna height of 15 meters.

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 TUV SUD BABT or a person appointed by TUV SUD 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:

2022-08-05

On behalf of TUV SUD BABT UNLIMITED