



Marine Equipment Directive Module B Type Examination Certificate

This is to certify that TÜV SÜD BABT did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive 96/98/EC as amended by Commission Directive 2014/93/EU and that the equipment of

Ocean Signal Ltd

known as

SafeSea S100

conforms to the relevant requirements for the following equipment as listed in Marine Equipment Directive:

Annex A.1/4.18 9 GHz SAR Transponder (SART) Equipment

as defined in Commission Directive 2014/93/EU

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

Signed:  Issue Date: 15 October 2015

On Behalf of TÜV SÜD BABT Number: BABT-MED001067 Issue:01

This certificate has been issued in accordance with the Certification Regulations of TÜV SÜD BABT (Notified Body Number 0168) and constitutes page 1 of the combined Certificate and Annex

This certificate is valid from 15 October 2015 until not later than 14 October 2020

The Conditions for the validity of this certificate are listed in the Annex.



0168



Annex to

Marine Equipment Directive Module B Type Examination Certificate

Description of Equipment

9 GHz Search and rescue transponder

Model: SafeSea S100

Product Components:

SART Main Unit

S100

Battery Unit

Li/FeS2

Compliance Matrix For MED Item A.1/4.18

IMO Resolutions	International Testing Standards	
IMO Res. A.694(17)	IEC 60945 (2002) inc Corr.1:2008	General Requirements for Marine Navigation Equipment (Inc. Corr1:2008)
IMO Res. A.530(13) IMO Res. A.802(19) IMO Res MSC.247(83)	IEC 61097-1 (2007)	Global maritime distress and safety system (GMDSS) — Part 1: Radar transponder — Marine search and rescue (SART)

Manufacturer:

Name: As Holder

Address: As Holder

Relevant Technical Documentation

User Guide: User Manual for the SafeSea S100 V01.00, 2011-02-15

Test report numbers: IEC 61097-1:2001 &
IEC 60945:2002 inc Corr. 1:2008: 10/591, 2010-09-23

Approved Software : Version 01.00.00

Approved Hardware : Circuit Diagram 911S-00156 Issue 1.00 &
910S-00156 Issue 1.00, 2010-10-05
Parts List: BOM:S100 BOM 1.02.pdf, 2010-08-19

NOTES:

- 1- 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.



Additional Information:

The products listed on this certificate were originally assessed and certified by QinetiQ under Notified Body number 0191. This certificate replaces QinetiQ Certificate Number QQ-MED-16/10-01.

Conditions of Validity

This issue of the Annex to the referenced Marine Equipment Module B Certificate relates to Issue 01 of the Certificate.

This certificate will not 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 B A B T or a person appointed by TÜV SÜD B A B T to perform that role.

Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on board 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 ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body."

Signed:..... on behalf of TÜV SÜD B A B T	Date:.....
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T. J. Twyman

15th October 2015



Marine Equipment Directive Module D Quality System Certificate

This is to certify that TUV SUD BABT did undertake the relevant assessment procedures for the quality system under the control of the manufacturer for the equipment identified in the Annex to this Certificate which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements under the following Implementing Regulation. Compliance was demonstrated by assessment to the appropriate requirements of the TUV SUD BABT Production Quality Certification scheme related to the MED Module D.

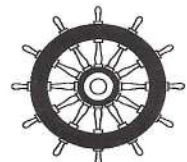
Implementing Regulation	(EU)2018/773
Certificate Holder and Manufacturer	Ocean Signal Ltd
Facilities	See Annex
Product Sector	Navigation Equipment Radiocommunication Equipment
Assessment Standard	BABT 340 Issue 10

Valid from: 08 April 2019


(Tom Twynam)

Expiry Date: 23 August 2021

This certificate has been issued in accordance with the Certification Regulations of TUV SUD BABT (Notified Body Number 0168) and constitutes page 1 of the combined Certificate and Annex.
The Conditions for the validity of this certificate are listed in the Annex.



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Annex to Marine Equipment Directive Module D Quality System Certificate



1 Details of the Productions Facilities (Fabricators)

1.1 Names and Addresses

Name: Ocean Signal Ltd

Name: ACR Electronics, Inc.

1.2 Product Sectors Covered:

- Navigation Equipment
- Radiocommunication Equipment

2 Module B Type Examination Certificate Information

Item No. MED/4.18 9 GHz Transponder (SART)

Product	Manufacturer	Implementing Regulation	Module B Certificate no.	Expiry Date	NB 0168 unless stated
SafeSea S100	1	2014/93/EU	BABT-MED001067	14/10/2020	-
Pathfinder™ Pro	2	2014/93/EU	BABT-MED001120	14/10/2020	-

Item No. MED/5.6 406 MHz EPIRB (COSPAS-SARSAT)

Product	Manufacturer	Implementing Regulation	Module B Certificate no.	Expiry Date	NB 0168 unless stated
SafeSea E100	1	(EU)2018/773	BABT-MED001121	22/10/2022	-
SafeSea E100G	1	(EU)2018/773	BABT-MED001121	22/10/2022	-
rescueME EPIRB1	1	2015/559/EU	142120002/AA/00	20/11/2019	NB 0560
E101V	1	2015/559/EU	162120001/AA/00	28/04/2021	NB 0560
X-VDRFF-AMI	1	2015/559/EU	162120002/AA/00	28/04/2021	NB 0560

Item No. MED/5.17 Portable survival craft two-way VHF Radiotelephone apparatus

Product	Manufacturer	Implementing Regulation	Module B Certificate no.	Expiry Date	NB 0168 unless stated
SafeSea V100	1	(EU)2018/773	BABT-MED000015	03/08/2021	-
ACR SR203	2	(EU)2018/773	BABT-MED000016	03/08/2021	-

3 Conditions of Validity

This issue of the Annex to the referenced Marine Equipment Module D Certificate relates to Issue 10 of the Certificate.

The references to Module B certificates relate to the issue of the Module B certificate valid at the time of issue of this certificate and any later issue of these certificates within the validity dates of this Module D certificate.

This certificate is also valid for any later issues of the listed Module B certificates unless specifically stated.

This certificate authorises the manufacturer or his authorised representative established within the community in conjunction with an EC Type Examination (Module B) certificate appropriate to one of the item designation types listed above, to affix the "Mark of Conformity" (wheel mark).

This certificate loses its validity if the manufacturer makes any changes or modifications to the approved quality system which have not been notified to, and agreed with TUV SUD BABT.

The manufacturer must immediately cease affixing the "Mark of Conformity" on any product subject to suspension, termination, expiry, withdrawal or revocation of the supporting EC Type Examination (Module B) Certificate.

Signature: L. J. Turynam

Date: 8th April 2019

On behalf of TUV SUD BABT

EC Declaration of Conformity

We, Ocean Signal Ltd., hereby declare that the following specified equipment complies with Directive 2014/90/EU (Marine Equipment) and has been assessed in accordance with MED/4.18 of EU implementing regulation 2017/306.

Equipment Description: Search and Rescue Transponder

Type: SafeSea S100.....

Manufactured by: Ocean Signal Ltd

This equipment has been tested to verify compliance with the following Regulations and Testing Standards:

IEC Standards: IEC61097-1:2007, IEC60945:2002.....

IMO resolutions: A.530(13), A.694(17), A.802(19), MSC.247(83).....

ITU Recommendations: ITU-R M.628-3 (11/93).....

Module B Type Examination Certificate No..... BABT-MED001067


Issued by:..... TÜV SÜD BABT (0168)

Module D Surveillance Certificate: BABT-MED005708-H1

Issued by:..... TÜV SÜD BABT (0168)

Product affixed with the following marks and identification:



Signed: 

Date: 17th March 2017

Name: David Sheekey

Position: Product & Approvals Manager

Appointed by the manufacturer as the responsible person for signing this Declaration



TECHNICAL ACCEPTANCE CERTIFICATE

CERTIFICAT D'APPROBATION TECHNIQUE

CERTIFICATION No. > **9296A-S100**

ISSUED TO > **Ocean Signal Ltd**

TYPE OF EQUIPMENT > **GMDSS Search and Rescue Transponder**

TRADE NAME AND MODEL > **SafeSea S100**

FREQUENCY RANGE	EMISSION TYPE	R.F. POWER	SPECIFICATION/ ISSUE	
9.2000 to 9.5000 GHz	300MX0N	460.00 mW	RSS188	1

Certification of equipment means only that the equipment has met the requirements of the above noted specifications. License applications, were applicable to use certified equipment, are acted on accordingly by the issuing office and will depend on the existing radio environment, service and location of operation.

This certificate is issued on condition that the holder complies and will continue to comply with the requirements of the radio standards specifications and procedures issued by the Department.

**ISSUED UNDER THE AUTHORITY OF MINISTER OF INDUSTRY
DÉLIVRÉ AVEC L'AUTORISATION DU MINISTRE DE L'INDUSTRIE**

DATE **March 29 2011**

Nicolas DesMarais

DIRECTOR GENERAL
ENGINEERING, PLANNING
AND STANDARDS

FEDERAL COMMUNICATIONS COMMISSION

GRANT OF EQUIPMENT AUTHORIZATION

Certification

Ocean Signal Ltd.

Attention: David Sheekey, Product and Approvals Manager

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER

XYES100

Name of Grantee

Ocean Signal Ltd.

Equipment Class:

Radar Transponder

Notes:

GMDSS Search and Rescue Transponder

Grant Notes

GM

FCC Rule Parts

80.1101(c)(6)

Frequency Range (MHZ)

9200-9500

Output Watts

0.4

Frequency Tolerance

0.65 %

Emission Designator

300MX0N

GM: This unit meets requirements for GMDSS use as contained in Subpart W of Part 80.

