



Maritime &
Coastguard
Agency

Notified body authorised by the MCA



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.

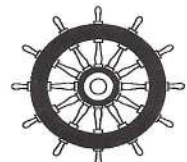
Implementing Regulation	(EU)2018/773
Certificate Holder and Manufacturer	Ocean Signal Ltd
Facilities	See Annex
Product Sector	Navigation Equipment Radiocommunication Equipment
Assessment Standard	BABT 340 Issue 10

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.



0168

Issued by TUV SUD BABT under document number BABT-MED005708-H1 Issue 10

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

CERTIFICATE

of
EC Type-examination (Module B)

Certificate No: 142120002/AA/02

Product Category: A.1/5.6

With respect to Marine Equipment Directive 96/98/EC and the amending Directive 2015/559/EU,
Telefication declares that the equipment:

Product description: **406 MHz EPIRB (Cospas-Sarsat)**

Trademark: **rescueME**

Type designation: **EPIRB1**

Hardware / Software version: **01.00 / 01.00**

Variants: --

Manufacturer: **Ocean Signal Ltd.**

Address: **Unit 4, Ocivan Way,**

City: **CT9 4NN Margate**

Country: **UNITED KINGDOM**

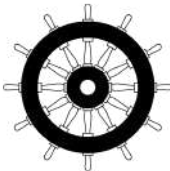
Complies with the international instruments and test standards as listed in the Annex.

This certificate is granted to:

Name: **Ocean Signal Ltd.**

Validity of this certificate is 5 years; **Expiry date: 20 November 2019**

This certificate has **THREE** Annexes.



Willem Jan Jong
Manager Product Certification



General conditions

- Each product to which this certificate relates shall be provided with Marine markings. The Marine marking consist of symbol in the form of a wheel followed by the identification number of the responsible Notified Body for module D, E, F or G, and by the last two digits of the number of the year in which the mark is affixed.
- The holder of this Certificate has drawn up a Declaration of conformity to type with Directive 96/98/EC and amending Directives, declaring that the product(s) described in this EC Type- examination certificate, satisfy the requirements that apply to them.
- Each product shall be identified by means of type, batch and/or serial numbers and the name of the manufacturer and/or importer.
- If the equipment is to be modified, Telefication shall be notified immediately. Depending on the modifications, Telefication may have additional examinations carried out in consultation with the applicant.
- Enforcement of a new amending directive voids the validity of this certificate for (re)placement of the product onboard ships.

Remarks and observations

The following conditions are applicable:

The device includes a 121.5 MHz homing facility and a GPS.

Type of EPIRB: non-float free, manual activation.

Documentation lodged for this EC type-examination

Test Reports:

- Public Enterprise Testing Centre Omega: 14/171 Issue 3, 06 August 2014
- Public Enterprise Testing Centre Omega: 14/508 Issue 2, 02 October 2014

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Internal photos
- External photos
- Manual
- Cospas Sarsat TAC: 256, issued 3 November 2014

International Instruments and test standards

The equipment complies with:

IEC 60945	August, 2002	Edition 4
IEC 60945/Corrigendum 1	April, 2008	Edition 4
IEC 61097-2	January, 2008	Ed. 3.0
IMO Resolution A.694(17)	1991	
IMO Resolution A.810(19)	1995	
ITU-R M.633-4	December, 2010	

Technical features and characteristics

The product includes the following features and characteristics:

EPIRB equipment

- Operating frequency range: 406.040 MHz
- ITU designation: 16K0G1D
- Modulation method(s): FM
- Maximum output power: 5 W

EPIRB equipment

- Operating frequency range: 121.5 MHz
- ITU designation: 3K20A3K
- Modulation method(s): AM
- Maximum output power: 0.05 W

GPS receiver

- Operating frequency range: 1575.42 MHz

Trademarks and Type designations:

The product as described in this EC type-examination includes the following type designations:

- Product description: 406 MHz EPIRB (Cospas-Sarsat)
- Trademark: rescueME
- Type designation: EPIRB1
- Hardware version: 01.00
- Software version: 01.00



TYPE APPROVAL CERTIFICATE

For a 406 Megahertz Distress Beacon for use with the Cospas-Sarsat Satellite System

Certificate Number: 256

Manufacturer: Ocean Signal Limited, UK
Beacon Type: EPIRB, Non-Float Free
Beacon Model: EPIRB1
Test Laboratory: OMEGA Test Centre
Dates of Test: February – June 2014

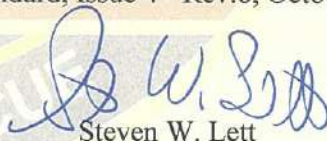
Details of the beacon features and battery type are provided overleaf.

The Cospas-Sarsat Council hereby certifies that the 406 MHz Distress Beacon Model identified above is compatible with the Cospas-Sarsat System as defined in documents:

C/S T.001 Specification for Cospas-Sarsat 406 MHz Distress Beacon, Issue 3 - Rev. 14, October 2013

C/S T.007 Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard, Issue 4 - Rev.8, October 2013

TAC 256 issued on 3 November 2014


Steven W. Lett
Head of Cospas-Sarsat Secretariat

NOTE, HOWEVER:

1. This certificate does not authorize the operation or sale of any 406 MHz distress beacon. Such authorization may require type acceptance by national administrations in countries where the beacon will be distributed, and may also be subject to national licensing requirements.
2. This certificate is intended only as a formal notification to the above identified manufacturer that the Cospas-Sarsat Council has determined, on the basis of test data of a beacon submitted by the manufacturer, that 406 MHz distress beacons of the type identified herein meet the standards for use with the Cospas-Sarsat System.
3. Although the manufacturer has formally stated that all beacons identified with the above model name(s) will meet the Cospas-Sarsat specification referenced above, this certificate is not a warranty and Cospas-Sarsat hereby expressly disclaims any and all liability arising out of or in connection with the issuance, use or misuse of the certificate.
4. This certificate is subject to revocation by the Cospas-Sarsat Council should the beacon type for which it is issued cease to meet the Cospas-Sarsat specification. A new certificate may be issued after satisfactory corrective action has been taken and correct performance demonstrated in accordance with the Cospas-Sarsat Type Approval Standard.
5. Cospas-Sarsat type approval testing requirements only address the electrical performance of the beacon at 406 MHz. Conformance of the beacon to operational and environmental requirements is the responsibility of national administrations.

Certificate Number: 256

Beacon Models:	EPIRB1
Operating temperature range:	-20°C to +55°C (Class 2)
Battery Details:	Qlite, Lithium Manganese Dioxide, 2 x 3 CR123 cells
Operating Lifetime:	48 hours
Transmit Frequency:	406.040 MHz

Beacon Model Features:

- Internal GPS receiver model: Quectel L70;
- Capable to update the encoded position data at variable intervals between 30 minutes and 2 hours;
- Integral manually retractable antenna;
- Manual activation and automatic (via water-switch) activation;
- Self-test mode, one burst of 520 ms;
- GNSS self-test, no RF-transmission, number of GNSS self-tests is limited to 12 for the battery replacement period;
- Strobe-light (20-30 flashes per minute);
- Approved for operation while floating in water, or placed on deck of ship, or in safety raft;

Approved Beacon Message Protocols: Beacon is approved for encoding with the message protocols indicated with "Yes" and black text below:

USER PROTOCOLS	USER-LOCATION PROTOCOLS	LOCATION PROTOCOLS
No Maritime with MMSI	No Maritime with MMSI	Yes Standard Location: EPIRB with MMSI
No Maritime with Radio Call Sign	Yes Maritime with Radio Call Sign	Yes Standard Location: EPIRB with Serial Number
No EPIRB Float Free with Serial Number	No EPIRB Float Free with Serial Number	No Standard Location: ELT with 24-bit Address
No EPIRB Non Float Free with Serial Number	No EPIRB Non Float Free with Serial Number	No Standard Location: ELT with Aircraft Operator Designator
No Radio Call Sign	Yes Radio Call Sign	No Standard Location: ELT with Serial Number
No Aviation	No Aviation	No Standard Location: PLB with Serial Number
No ELT with Serial Number	No ELT with Serial Number	Yes National Location: EPIRB
No ELT with Aircraft Operator and Serial Number	No ELT with Aircraft Operator and Serial Number	No National Location: ELT
No ELT with Aircraft 24-bit Address	No ELT with Aircraft 24-bit Address	No National Location: PLB
No PLB with Serial Number	No PLB with Serial Number	
No National (Short Format Message)		
No National (Long Format Message)		



TYPE APPROVAL CERTIFICATE

For a 406 Megahertz Distress Beacon for use with the Cospas-Sarsat Satellite System

Certificate Number: 297

Manufacturer: Ocean Signal Limited, UK

Beacon Type: EPIRB, Non-Float Free

Beacon Model: EPIRB1

Test Laboratory: OMEGA Test Centre

Dates of Test: February – June 2014

Details of the beacon features and battery type are provided overleaf.

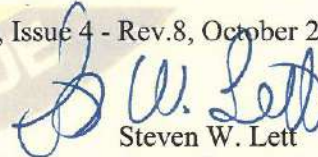
The Cospas-Sarsat Council hereby certifies that the 406 MHz Distress Beacon Model identified above is compatible with the Cospas-Sarsat System as defined in documents:

C/S T.001 Specification for Cospas-Sarsat 406 MHz Distress Beacon, Issue 3 - Rev. 14, October 2013

C/S T.007 Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard, Issue 4 - Rev.8, October 2013

Original TAC 256 issued on **3 November 2014**

First extension TAC 297 issued on **20 December 2017**


Steven W. Lett
Head of Cospas-Sarsat Secretariat

NOTE, HOWEVER:

1. This certificate does not authorize the operation or sale of any 406 MHz distress beacon. Such authorization may require type acceptance by national administrations in countries where the beacon will be distributed, and may also be subject to national licensing requirements.
2. This certificate is intended only as a formal notification to the above identified manufacturer that the Cospas-Sarsat Council has determined, on the basis of test data of a beacon submitted by the manufacturer, that 406 MHz distress beacons of the type identified herein meet the standards for use with the Cospas-Sarsat System.
3. Although the manufacturer has formally stated that all beacons identified with the above model name(s) will meet the Cospas-Sarsat specification referenced above, this certificate is not a warranty and Cospas-Sarsat hereby expressly disclaims any and all liability arising out of or in connection with the issuance, use or misuse of the certificate.
4. This certificate is subject to revocation by the Cospas-Sarsat Council should the beacon type for which it is issued cease to meet the Cospas-Sarsat specification. A new certificate may be issued after satisfactory corrective action has been taken and correct performance demonstrated in accordance with the Cospas-Sarsat Type Approval Standard.
5. Cospas-Sarsat type approval testing requirements only address the electrical performance of the beacon at 406 MHz. Conformance of the beacon to operational and environmental requirements is the responsibility of national administrations.
6. This certificate authorizes the use of the registered name mark "Cospas-Sarsat" and of registered trademarks for the Programme's logos, for labelling, instruction materials, and marketing of the 406-MHz beacon model identified, but not for other marketing or sales purposes (i.e., not for general uses beyond this specific beacon model).

Certificate Number: 297

Beacon Models: EPIRB1

Operating temperature range: -20°C to +55°C (Class 2)

Battery Details: Qlite, Lithium Manganese Dioxide, 2 x 3 CR123 cells

Operating Lifetime: 48 hours

Transmit Frequency: 406.040 MHz

Beacon Model Features:

- Internal GPS receiver model: Quectel L70;
- Capable to update the encoded position data at variable intervals between 30 minutes and 2 hours;
- Integral manually retractable antenna;
- Manual activation and automatic (via water-switch) activation;
- Self-test mode, one burst of 520 ms;
- GNSS self-test, no RF-transmission, number of GNSS self-tests is limited to 12 for the battery replacement period;
- Strobe-light (20-30 flashes per minute);
- Approved for operation while floating in water, or placed on deck of ship, or in safety raft;

Approved Beacon Message Protocols: Beacon is approved for encoding with the message protocols indicated with "Yes" and black text below:

USER PROTOCOLS	USER-LOCATION PROTOCOLS	LOCATION PROTOCOLS
No Maritime with MMSI	No Maritime with MMSI	Yes Standard Location: EPIRB with MMSI
No Maritime with Radio Call Sign	Yes Maritime with Radio Call Sign	Yes Standard Location: EPIRB with Serial Number
No EPIRB Float Free with Serial Number	No EPIRB Float Free with Serial Number	No Standard Location: ELT with 24-bit Address
No EPIRB Non Float Free with Serial Number	No EPIRB Non Float Free with Serial Number	No Standard Location: ELT with Aircraft Operator Designator
No Radio Call Sign	Yes Radio Call Sign	No Standard Location: ELT with Serial Number
No Aviation	No Aviation	No Standard Location: PLB with Serial Number
No ELT with Serial Number	No ELT with Serial Number	Yes National Location: EPIRB
No ELT with Aircraft Operator and Serial Number	No ELT with Aircraft Operator and Serial Number	No National Location: ELT
No ELT with Aircraft 24-bit Address	No ELT with Aircraft 24-bit Address	No National Location: PLB
No PLB with Serial Number	No PLB with Serial Number	No RLS Location: EPIRB
No National (Short Format Message)		No RLS Location: ELT
No National (Long Format Message)		No RLS Location: PLB
		No ELT(DT) Location: ELT with Serial Number
		No ELT(DT) Location: ELT with Aircraft Operator and Serial Number
		No ELT(DT) Location: ELT with Aircraft 24-bit Address

EC Declaration of Conformity

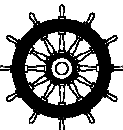
We, Ocean Signal Ltd., hereby declare that the following specified equipment complies with Directive 2014/90/EU (Marine Equipment) and has been assessed in accordance with MED/5.6 of EU implementing regulation 2017/306.

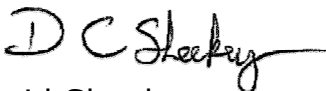
Equipment Description: Emergency Position Indicating Radio Beacon
 Type: rescueME EPIRB1.....
 Manufactured by: Ocean Signal Ltd.

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

IEC61097-2, IEC60945.....
 Cospas Sarsat T.001, T.007

Module B Type Examination Certificate No. 142120002/AA/02
 Issued by:Telefication B.V. (0560)
 Module D Surveillance Certificate BAPT-MED005708-H1
 Issued by TÜV SÜD BAPT (0168)

Product affixed with the following marks and identification:  **0168**
YY

Signed:  Date: 11th July 2018
 Name: David Sheekey Position: Product & Approvals Manager



TCB

**GRANT OF EQUIPMENT
AUTHORIZATION**

TCB

**Certification
Issued Under the Authority of the
Federal Communications Commission
By:**

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: XYEPIRB1
Name of Grantee: Ocean Signal Ltd.
Equipment Class: 406 MHz EPIRB
Notes: Emergency Position Indicating Radio
Beacon (EPIRB)

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	80.1101(c)(5)	406.04 - 406.04	5.0	1000.0 Hz	16K0G1D
	80.1101(c)(5)	121.5 - 121.5	0.05	50.0 PM	3K20A3K

Device incorporates GPS receiver.

Certificate No: 142180713/AA/00	W.J.M. Jong Manager Product Certification	<i>W.J.M. Jong</i>
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