TYPE APPROVAL CERTIFICATE

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

Certificate Number: 348

Manufacturer: Ocean Signal Ltd., United Kingdom

Beacon Type: PLB

Beacon Model: rescueME PLB1

Additional Model Names: ARTEX PLB

Test Laboratory: OMEGA Test Centre, Sevastopol, Ukraine

Date of Test: December 2012

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. 13, October 2012

C/S T.007   Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard
Issue 4 – Rev. 7, October 2012

Originally approved with TAC 239 on **19-Feb-2013**   Fourth additional TAC 310 issued on **1-Feb-2019**
First additional TAC 260 issued on **3-Feb-2015**   Fifth additional TAC 321 issued on **23-Sep-2019**
Second additional TAC 283 issued on **27-Jan-2017**   Sixth additional TAC 333 issued on **13-Oct-2020**
Third additional TAC 299 issued on **6-Feb-2018**   Seventh additional TAC 342 issued on **21-May-2021**
     Eighth additional TAC 348 issued on **30-Nov-2021**

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).

Beacon Model:	rescueME PLB1 (additional model name – ARTEX PLB)
Operating temperature range:	-20°C to +55°C (Class 2)
Operating Lifetime:	24 hours
Transmit Frequency:	406.040 MHz
Battery Details:	Energizer 123 Photo, Lithium Manganese Dioxide (3 cells)

Beacon Model Features:

- Internal GPS receiver model: Quectel L70;
- Capable to update the encoded position data at variable intervals between 5 minutes and 4 hours;
- Integral antenna;
- Manual activation only;
- Self-test mode, one burst of 520 ms;
- GNSS self-test, no RF-transmission, number of GNSS self-tests is limited to 10 for the battery replacement period of 8 years;
- Strobe-light (1 cd, 24 flashes per minute);
- Approved for operation while placed on ground and above ground only;
- Beacons have not been designed, tested nor type approved for use while immersed in water.

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

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