



TYPE APPROVAL CERTIFICATE

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

Certificate Number: 399

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**
First additional TAC 260 issued on **3-Feb-2015**
Second additional TAC 283 issued on **27-Jan-2017**
Third additional TAC 299 issued on **6-Feb-2018**
Fourth additional TAC 310 issued on **1-Feb-2019**
Fifth additional TAC 321 issued on **23-Sep-2019**
Sixth additional TAC 333 issued on **13-Oct-2020**

Seventh additional TAC342 issued on **21-May-2021**
Eighth additional TAC 348 issued on **30-Nov-2021**
Ninth additional TAC 359 issued on **23-Jun-2022**
Tenth additional TAC 376 issued on **23-Mar-2023**
Eleventh additional TAC 393 issued on **20-Mar-2024**
Twelveth additional TAC 399 issued on **22-Oct-2024**

Dr Shefali Juneja
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;
- 121.5 MHz homer-transmitter (power of 14-20dBm, homer duty cycle of 97%, homer swept tone duty cycle of 34%);
- 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