



TYPE APPROVAL CERTIFICATE

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

Certificate Number: 288

Manufacturer: ACR Electronics Inc., USA
Beacon Type: EPIRB, Float-Free/Non-Float Free
Beacon Model: RLB-41 (Additional Model Name: GlobalFix™ V4)
Test Laboratory: TÜV SÜD Product Service Ltd., Fareham, UK
Dates of Test: March – May 2015

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. 15, October 2014
C/S T.007 Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard
Issue 4 – Rev. 9, October 2014

Original TAC 270 issued on: **6 November 2015**

1st Extension TAC 288 issued on: **26 May 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.

Beacon Model: RLB-41 (Additional Model Name: GlobalFix™ V4)

Beacon Type: EPIRB, Float Free/Non-Float-Free

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

Battery Details: Lithium Manganese Dioxide (LiMnO₂), Panasonic CR-123A, 2/3A size, 3 battery packs, 3 cells each, battery pack ACR P/N A3-06-2865

Operating Lifetime: 48 hours

Transmit Frequency: 406.040 MHz

Antenna: Integral transmit antenna ACR P/N A3-06-2554

Beacon Model Features:

- 121.5 MHz auxiliary radio-locating device (nominal power: 50 – 160 mW, duty cycle 96%);
- Internal GNSS/GPS receiver, model: GlobalTop Tech Inc. model “gms-hpr”, ACR P/N A1-11-0877-1;
- Self-test mode (one burst of 440 ms);
- GNSS Self-test mode (one burst of 520 ms, limited to 84 tests during the battery replacement period);
- Automatic beacon activation (via water sensor when not in bracket);
- Tested in EPIRB configuration corresponding to beacon operation while floating in water, or placed on deck of ship, or in a 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	Yes 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	Yes EPIRB Float Free with Serial Number	No Standard Location: ELT with 24-bit Address
No EPIRB Non Float Free with Serial Number	Yes 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)		