



## TYPE APPROVAL CERTIFICATE

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

**Certificate Number: 169**

**Manufacturer:** *ACR Electronics Inc, Fort Lauderdale, USA*  
**Beacon Type(s):** *PLB*  
**Beacon Model(s):** *PLB 300*  
**Test Laboratory:** *TUV Product Service, UK*  
**Date of Test:** *September 2006 – October 2006*

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. 7, November 2005  
C/S T.007      Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard  
                  Issue 4, November 2005

**Date Originally Issued: 15 December 2006**

A handwritten signature in black ink, appearing to read "D. Levesque", written over a horizontal line.

D. Levesque  
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.

Operating temperature range:

-20°C to +55°C

Battery Details:

Sanyo CR123A

Lithium Manganese Dioxide (Li-MnO<sub>2</sub>, 6 cells, 2/3 A-size)

Operating Lifetime: 24 hours

Transmit Frequency: 406.028 MHz

**Beacon Model Features:**

- 121.5 MHz auxiliary radio locating device (50 mW, duty cycle continuous);
- Internal GPS model Wonde Proud ZX4H2SP-4
- Self-test mode, one burst of 240 ms, and
- Integrated antenna.

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