TYPE APPROVAL CERTIFICATE

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

Certificate Number: 219

Manufacturer: ACR Electronics Inc., Fort Lauderdale, USA

Beacon Type: PLB

Beacon Model: PLB-375

Additional Model Name: ResQLink

Test Laboratory: TÜV SÜD Product Service Ltd, UK

Date of Test: January – June 2011

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. 11, October 2010

C/S T.007 Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard
Issue 4 - Rev.5, October 2010

Original TAC 219 issued on **11 July 2011**

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.

Certificate Number: 219 **Dated: 11 July 2011**

Beacon Model: PLB-375

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

Battery Details: Panasonic CR123A, Lithium Manganese Dioxide (3 cells, ⅔ A-size)

Operating Lifetime: 24 hours

Transmit Frequency: 406.037 MHz

Beacon Model Features:

- 121.5 MHz auxiliary radio locating device (80 mW, duty cycle 97%);
- Strobe light, 20 flashes/minute;
- Internal GPS receiver model: GlobalTop Tech Inc., model FGPMMOPA6B, P/N A1-11-0877;
- Self-test mode, one burst of 440 ms;
- Integrated antenna;
- GNSS self-test, one burst of 520 ms;
- Beacon was tested in PLB configuration ("on dry ground" and "above ground") only.

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	No	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 (Short Format Message)				
No	National (Long Format Message))				

Database ID: 219-1

TAC Number: 219 **TAC Date:** 11-Jul-11 **TAC Rev Date:**

Beacon Model Name: PLB-375

Additional Names: ResQLink

Manufacturer: ACR Electronics Inc.

Tx Frequencies: 406.037 MHz **In Production:** Yes **Class:** 2

Type:
FF=Float Free PLB **Tested Life:**
(24 / 48 hrs) 24

Battery:
Manufacturer (Model, No of Cells) PANASONIC CR123A, Lithium Manganese Dioxide (3 cells, 2/3 A size)

Protocols Tested: NL, SL

Protocol Notes: U=User; UL=User-Location; SL=Standard Location; NL=National Location

Self Test: Yes

Self Test RF: Yes **Self Test RF (Short/Long):** Short

Self Test Format Flag: Long **Self Test Consistent with 15 Hex ID:** Yes

Homer Freq: 121.5 MHz **Homer Duty Cycle:** Intermittent, 97%

Homer Power: 80 mW

Strobe Light: Yes **Strobe Brightness:** N/A

Strobe Duty Cycle: 20 flashes/min

Nav Device: Int

Nav Device Model: GlobalTop Tech Inc., model FGPMMOPA6B, P/N A1-11-877

Separable Antenna: No

Antenna Model: Integral antenna

Additional Functions: GNSS Self-test, 1 burst of 520 ms

Comments General:
(1) Beacon was tested in PLB configuration only, corresponding to beacon operation while "on ground" and "above ground".
(2) Demonstrated full compliance with C/S Standards: C/S T.001 Issue 3 - Rev.11 (October 2010), C/S T.007 Issue 4 - Rev.5 (October 2010).
(3) Approved for message encoding with Standard Location Protocol for PLB with Serial Number, and with National Location Protocol for PLB.

TAC Rev History:

Database ID: 219-1