



TYPE APPROVAL CERTIFICATE

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

Certificate Number: 194

Manufacturer: Signature Industries Ltd., United Kingdom
Beacon Type: PLB
Beacon Models: Fastfind PLB 210, Fastfind PLB 200
Additional Model Names: Fastfind PLB 211, Fastfind PLB 201
Test Laboratory: TUV Product Service Ltd., Fareham, United Kingdom
Date of Test: August – November 2008

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. 8, November 2007
C/S T.007 Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard
Issue 4 – Rev. 2, November 2007

Date Originally Issued: **6 February 2009**

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.

Beacon Models:	Fastfind PLB 210/Fastfind PLB 211 and Fastfind PLB 200/Fastfind PLB 201
Operating temperature range:	-20°C to +55°C (Class 2)
Operating Lifetime:	24 hours
Transmit Frequency:	406.037 MHz
Battery Details:	Lithium Manganese Dioxide (Li-MnO ₂), Varta Microbattery, 4 x "CR 2/3 AH" cells, or Lithium Manganese Dioxide (Li-MnO ₂), Panasonic, 4 x "CR 123 A" cells

Beacon Model Features:

- Internal Navigation device (GPS / Galileo) produced by u-Blox, model "LEA-5A"⁽¹⁾;
- 121.5 MHz auxiliary radio locating device (power 16.5 dBm, duty cycle – 99.1%);
- Messages of long ⁽¹⁾ and short ⁽²⁾ format;
- Integrated antenna;
- Self-test mode with one burst of 440 ms;
- GNSS Self-test ⁽¹⁾; and
- Beacons were tested only in PLB configurations, corresponding to beacon operation while on ground and above ground.

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
Yes Maritime with MMSI ⁽²⁾	Yes Maritime with MMSI ⁽¹⁾	Yes Standard Location: EPIRB with MMSI ⁽¹⁾
Yes Maritime with Radio Call Sign ⁽²⁾	Yes Maritime with Radio Call Sign ⁽¹⁾	Yes Standard Location: EPIRB with Serial Number ⁽¹⁾
No EPIRB Float Free with Serial Number	No EPIRB Float Free with Serial Number	No Standard Location: ELT with 24-bit Address
Yes EPIRB Non Float Free with Serial Number ⁽²⁾	Yes EPIRB Non Float Free with Serial Number ⁽¹⁾	No Standard Location: ELT with Aircraft Operator Designator
Yes Radio Call Sign ⁽²⁾	Yes Radio Call Sign ⁽¹⁾	No Standard Location: ELT with Serial Number
No Aviation	No Aviation	Yes Standard Location: PLB with Serial Number ⁽¹⁾
No ELT with Serial Number	No ELT with Serial Number	Yes National Location: EPIRB ⁽¹⁾
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 ⁽¹⁾
Yes PLB with Serial Number ⁽²⁾	Yes PLB with Serial Number ⁽¹⁾	
No National (Short Format Message)		
No National (Long Format Message)		

Notes: (1) Applicable only to Fastfind PLB 210 and Fastfind PLB 211;
(2) Applicable only to Fastfind PLB 200 and Fastfind PLB 201.