COSPAS SARSAT

TYPE APPROVAL CERTIFICATE

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

Certificate Number: 180

Manufacturer: KANNAD, France

Beacon Type: PLB

Beacon Model(s): XS3-GPS

Test Laboratory: Intespace, Toulouse, France

Dates of Test: November 2006 – July 2007

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 – Rev. 1, October 2006

Date Originally Issued: 10 October 2007

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 (Class 2)

Battery Details: Duracell DL123/6, Lithium, (3 x 2 cells)

Operating Lifetime: 24 hours

Transmit Frequency: 406.028 MHz

Beacon Model Features:

- 121.5 MHz auxiliary radio-locating device (50 mW ±3 dB, homer duty cycle 100%, duty cycle of sweep tone 50%);
- Internal navigation device, model 'FASTRAX ITRAX03-8';
- Long format messages;
- Self-test mode with one burst 520 ms;
- Integrated antenna; and
- Beacon was tested only in PLB configuration (but not floating in water).

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