

# 1 GENERAL INFORMATION

## 1.1 Product description

The ARVA 9000 is a Beacon Digital Avalanche Transceiver. The ARVA 9000 is worn on body during mountains climbing or skiing; It emits a beep as long as it is set in S.O.S. mode. In case of somebody buried under an avalanche, a rescue person, can set its ARVA 9000 in receiver mode, locates the victim accurately under snow, and then extricates the victim. A multiple indicator, with automatic synchronization on the nearest victim, tells to the rescuers, when all victims have been rescued.

The ARVA 9000 is automatically switch On when inserting the strap into the device. It works with 4 alkaline batteries which provide it, an autonomy of more than 250 hours.

For more information, see product's data sheet at section 1.6.

## 1.2 Related Submittal(s) / Grant(s)

All host equipment used in the test configuration are FCC granted, when relevant.

## 1.3 Tested System Details

The FCC IDs for all equipment, plus description of all cables used in the tested system are :

As no other equipment can be connected on the device, the tested system was only composed of the ARVA9000.

Trade Mark – Model Number (Serial number)	FCC ID	Description	Cable description
Option Industries - ARVA9000* (sn: 3-B 4836)	OB9ARVA9000	Beacon avalanche transceiver	No cable attached to product

\*Equipment Under Test

## 1.4 Test Methodology

As the ARVA9000 can only work on batteries, no conducted testing has been performed.

Radiated testing were performed according to the procedures in ANSI C63.4-1992, CISPR22-1993/A1:1995/A2:1996 and EN55022:1994/A1:1995/A2:1997.

Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, the device under test has been moved in different positions in order to identify the worst case set-up.

## 1.5 Test facility

Tests have been performed on November 6th, 2000.

The test facility used to collect the radiated and conducted data is the SMEE Actions Mesures facility, located ZI des Blanchisseries, 38500 VOIRON, France. This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4-1992 in a letter dated August 04, 1999 (registration number 94821).

This test facility has also been accredited by COFRAC (French accreditation authority for European union test lab accreditation organization), accreditation number I-0844 as compliant with test site criteria and competence in EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.

## 1.6 Technical characteristics





- Mode recherche.
- Search mode.
- Suchvorgang.
- Modo búsqueda.
- Modo ricerca.

**Caractéristiques techniques :**  
 Émetteur/Récepteur : 457 KHz, fréquence internationale.  
 Mise en route par simple bouclage des sangles.  
 Test pile sonore et visuel.  
 Auto contrôle en émission.  
 Recherche automatique par voyants lumineux et afficheur de progression.  
 Poids : 220 gr - Autonomie + 250 heures.  
 Alimentation 4 piles alcalines AAA/1R03.  
 Réalisé suivant norme européenne ETS 300718.

**Technical characteristics:**  
 Transceiver 457 KHz, International Frequency.  
 Switch on by inserting end of strap into transceiver.  
 Visual and auditory battery test.  
 Autotests when switched on.  
 Transmission level self-test.  
 Automatic search with directional arrow and progress indicator.  
 Weight : 220 gr, Autonomy: more than 250 hours.  
 Requires 4 alkaline batteries AAA/1R03.  
 Manufactured in accordance with European standard ETS 300718.



- Position en mode émission.
- Transmit position.
- Richtige Position im Sendezustand.
- Modo emisión.
- Modo trasmissione.

**Technische Daten**  
 Senden und Suchen : 457 KHz, die international festgelegte Frequenz.  
 Automatisches Einschalten durch Anlegen und Zuschließen des Schultergurtes in das Gerät.  
 Selbständiger Funktions-Check aller Funktionen beim Einschalten des Gerätes.  
 Akustische und visuelle Prüfung des Batteriezustandes.  
 Selbstkontrolle der Sendeleistung.  
 Automatische Suche durch Richtungspeil, Kontrolllampe und Displayanzeige zur genauen Lokalisierung.  
 Fortschrittsanzeige.  
 Gewicht : 220 gr.  
 Betriebsbereitschaft : mindestens 250 Stunden.  
 Stromversorgung : 4 alkalische Batterien mit der Norm AAA/1R03.  
 Herstellung gemäß europäischer Norm ETS 300718.

Modulation: 100 ms, 100 Hz