

KANNAD 406 AP-H

Automatic portable COSPAS-SARSAT ELT three frequency transmitter



Advantages

This new generation ELT offers all the latest improvements of the COSPAS-SARSAT system with the 406 MHz frequency at a price slightly over that of conventional two frequency ELTs:

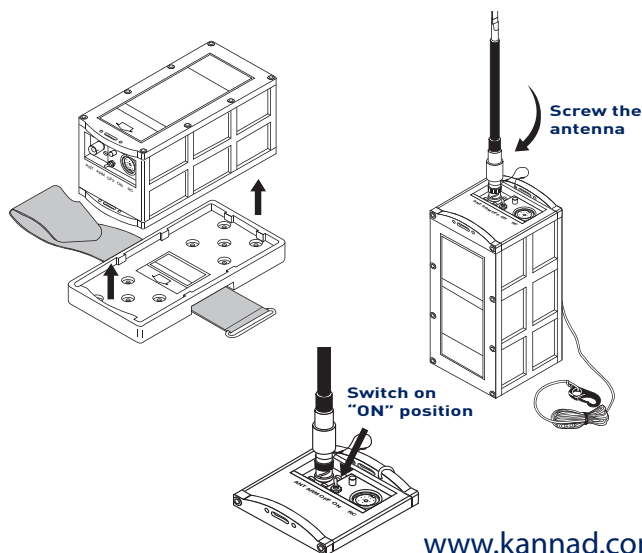
- **Global coverage**
thanks to COSPAS-SARSAT multiple satellite constellation
- **Precise pinpointing (<1NM)**
due to the unparalleled frequency accuracy of the 406 transmitter
- **Identification of the aircraft in distress**
the ELT transmits a unique aircraft identification number
- **Efficient process of false alarms**
to avoid costly search and rescue operations

Description

Specialist in pinpointing distresses by satellite and number one in 406 MHz maritime Emergency Position Indicating Radio Beacons (EPIRBs), KANNAD proposes the **KANNAD 406 AP-H**, Automatic Portable Emergency Locator Transmitter (ELT).

The **KANNAD 406 AP-H** has been specifically developed to be installed on board helicopters in the flat position (to gain space compared with usual installations at 45° downwards)

When removed from its bracket and connected to the auxiliary antenna, the KANNAD 406 AP-H becomes an autonomous survival beacon operating on 3 frequencies (121.5/243.0/406MHz).



The KANNAD 406 AP-H is programmed with either the aircraft tail number, a serial number or the aircraft operator designator. As the ELT does not need to be opened, this operation only takes a few minutes and can be carried out inside the aircraft.

The KANNAD 406 AP-H has been specifically developed for quick operations when time means money: the housing is velcro mounted and programming can be done automatically by plugging a programmed connector (programming dongle on option) to the ELT front panel. This means that the ELT can be easily replaced on board within seconds.

A remote control panel (on option) located in the cockpit allows manual activation and the self test of various operating parameters.

A buzzer and a led integrated to the ELT warns the pilot should an activation occur.

A navigation interface (ARINC429 or RS serial) can be added (on option) to download the position of the aircraft in the ELT. In this case COSPAS-SARSAT organisation will receive the position in addition to the identification of the aircraft instantly.

Maintenance is limited to a monthly « self test » and the lamp flashing sequence indicates the test result.

Battery replacement is only necessary every 6 years thanks to LiMnO2 technology. This represents a considerable improvement over standard generation ELTs with battery replacement necessary every year or every two years.

The KANNAD 406 AP-H is qualified in EUROPE with JTSO-2C91a & JTSO-C126 in compliance with EUROCAE ED62 standard and by FAA with TSO-C91a and TSO-C126.

P/N

P/N: S1820502-04 ELT KANNAD 406 AP-H
 P/N: S1820511-01 mounting bracket - 1 strap
 P/N: 0124206 ANT100 auxiliary antenna

OPTIONS: SMART CONNECTORS
 P/N: S1820514-01 PROGRAMMING DONGLE
 P/N: S1820514-02 DEPROGRAMMING MAINTENANCE DONGLE

OPTIONS: NAVIGATION INTERFACE
 P/N: S1825501-02 NAV. INTERFACE (ARINC 429)
 P/N: S1825501-01 NAV. INTERFACE (SERIAL RS)

OPTIONS: REMOTE CONTROL PANELS
 P/N: S1820513-11 REMOTE CONTROL PANEL RC200 (33 x 50mm)
 P/N: S1820513-05 REMOTE CONTROL PANEL RC400 (148 x 38mm)

CONTACT US FOR REMOTE CONTROL AND ANTENNA SELECTION

TECHNICAL SPECIFICATIONS

TRANSMISSION

406.025 MHz
 5W (37 ±2dBm)
 Modulation 16K0G1D (bi-phase L encoding)
 with aircraft identification code
 Distress message every 50 s
 121.5 MHz and 243 MHz
 100mW min (+20dBm)
 Modulation 3K20A3X
 Audio sweep from 1420 Hz to 490 Hz
 Continuous transmission

POWER SUPPLY

Solid Cathode Lithium battery pack (LiMnO2)
 Battery replacement every 6 years

PROGRAMMING

- . Aircraft nationality and registration marking
- . Aircraft operator designator and ELT serial number up to 4096
- . Aircraft ICAO 24 bit address
- . Serial number
- . Pin programming connector on option

ACTIVATION

Automatically by an integrated shock sensor
 (G-SWITCH)
 Manually
 Remotely (remote control panel in the cockpit)

SELF TEST

406 MHz RF power
 Battery voltage
 Frequency
 Programming

TEMPERATURE RANGE

Operating: -20°C to +55°C
 Storage: -55°C to +85°C

MECHANICS

Material Moulded plastic
 Colour Yellow (colour compounded)
 Mounting bracket with velcro strap

WEIGHT AND DIMENSIONS

1290 gr (2.84 lb) with battery, bracket and auxiliary antenna
 Housing:
 172 x 82 x 82 mm (6.77 x 3.22 x 3.22")
 Over all dimensions (with auxiliary antenna):
 290 x 115 x 95 mm (11.4 x 4.5 x 3.7")

TESTS & CERTIFICATION

Type AP
 ED 62, ED14, JTSO-2C91a, JTSO-2C126, TSO-C91a, TSO-C126
 D0183, D0204, D0160
 Resistance, crush, 500 G shocks, cabin depressurization,
 watertightness

CONTROL PANEL

ARM / OFF / ON switch
 Bright red visual indicator
 BNC antenna connector
 DIN12 connector for remote control panel

OUTSIDE ANTENNA (on option)

Three frequency (121.5 / 243 / 406 MHz)
 Rod or Blade depending on the aircraft speed

AUXILIARY ANTENNA

Three frequency (121.5 / 243 / 406 MHz)
 Whip 400mm (15.75")
 BNC connector