KANNAD 406 AP

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

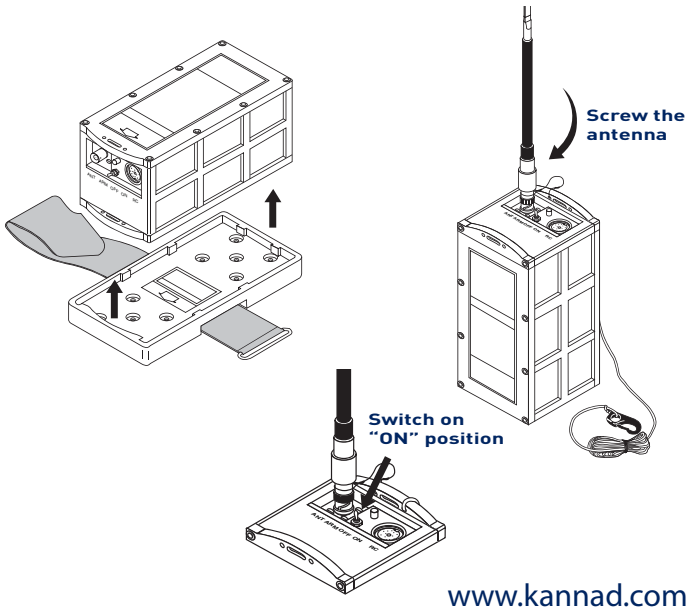
- **Efficient process of false alarms**
  to avoid costly search and rescue operations

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**, Automatic Portable Emergency Locator Transmitter (ELT).

The **KANNAD 406 AP** is designed to be installed near the tail and to be connected to an outside antenna. A sophisticated « shock sensor » will activate the ELT automatically in the event of a crash.

When removed from its bracket and connected to the auxiliary antenna, the **KANNAD 406 AP** becomes an autonomous survival beacon operating on 3 frequencies (121,5/243,0/406MHz).



KANNAD

www.kannad.com

KANNAD 406 AP

The **KANNAD 406 AP** 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** 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** 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: S1820502-01 ELT KANNAD 406 AP
P/N: S1820511-01 mounting bracket - 1 strap

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)

OPTIONS: ANTENNAS
P/N: 0124220 ANTENNA FOR LOW SPEED AIRCRAFT ANT 300
P/N: 0124251 ANTENNA FOR HIGH SPEED AIRCRAFT ANT 650

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):
285 x 107 x 993 mm (11.2 x 4.2 x 3.6")

TESTS & CERTIFICATION
Type AP
ED 62, ED14, JTSO-2C91a, JTSO-2C126, TSO-C91a, TSO-C126
DO183, DO204, DO160
Resistance, crush, 500 G shocks, cabin depressurization, watertightness

CONTROL PANEL
ARM / OFF / ON switch
Bright red LED
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

Ref: DOC98099E

KANNAD - ZI des Cinq Chemins - 56520 Guidel-France / Tel: +33 2 97 02 49 49 / Fax: +33 2 97 65 02 19 / contact.aviation@kannad.com