

# KANNAD 406 AF-H

## Automatic fixed COSPAS-SARSAT ELT helicopter installation



### Advantages

This new generation ELT offers all the latest improvements of the COSPAS-SARSAT system with the 406 MHz frequency:

- **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 AF-H, Automatic Fixed Emergency Locator Transmitter (ELT).

The KANNAD 406 AF-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).



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The KANNAD 406 AF-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 AF-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 AF-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: S1822502-02 ELT, KANNAD 406AF-H  
 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, on option)

### SELF TEST

406 MHz RF power  
 Battery voltage  
 Frequency  
 Programming

### TEMPERATURE RANGE

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

### HOUSING

Material Moulded plastic  
 Colour Yellow (colour compounded)  
 Transmitter dimensions  
 172mm x 82mm x 82mm  
 (6,77 x 3,22 x 3,22")  
 Overall dimensions max.  
 181mm x 100mm x 95mm  
 (7,12 x 3,93 x 3,74")  
 Weight typical 1110g (2.44lbs)  
 /max 1180g (2.60lbs)  
 (including battery)

### TESTS & CERTIFICATION

Type AF  
 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 LED  
 BNC antenna connector  
 DIN12 remote control connector

### OUTSIDE ANTENNA (on option)

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