KANNAD 406 AF

Automatic fixed Cospas-Sarsat ELT three frequency transmitter

Photo©: Pilatus Aircraft Ltd

Main characteristics

This new generation of 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), Martec Serpe-lesm proposes the **KANNAD 406 AF**, Automatic Fixed Emergency Locator Transmitter.

The **KANNAD 406 AF** 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.

Its small size and light weight make it ideal for general aviation.

KANNAD

Kannad 406 AF

The KANNAD 406 AF 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 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 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: S1821502-02 ELT, KANNAD 406AF
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
DO183, DO204, DO160
Resistance, crush, 500 G shocks, cabin depressurization, watertightness

CONTROL PANEL
ARM / OFF / ON switch
Bright red LED
BNC antenna connector
DIN 12 remote control connector

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

Ref: DOC098054L

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