kannad aviation

Programming Data Sheet

Purpose ☐ First Installation ☐ Re-coding

Aircraft identification

Type of aircraft [_____]   MSN [_____]
if forwardfit

Country [_____]   24-bit address [__][__][__][__][__][__]
Country of registration of the aircraft   *hexadecimal format*

Tail Number [_____] [_____]
Aircraft registration marking   *Tail Number Repeated in Radio Alphabet (ex: Foxtrot Bravo Romeo Zulu Echo)*

Aircraft operator

Airline / Name (if private) [_____]   Three letter airline designator *(AOD)* [_____]

Address [_____]   Phone [+ _____]

[_____]   E-mail [_____]

[_____]   Country [_____]

ELT system configuration

Model of ELT to program [_____]   Will it be the only ELT onboard this aircraft? ☐ No ☐ Yes

Other ELT(s) [_____]
If there are other ELTs onboard this aircraft, please indicate type, coding, rank, etc, see reverse for more information

Is there a programming dongle in this installation?
☐ No (ELT programming)
☐ Yes (DONGLE programming)
← ***This information is crucial. In case of doubt, ask your programmer for help.***

Coding preferences

Note: If you leave this part blank (recommended), the programmer will select the most appropriate protocol for you. However, if you require a specific protocol, or if your local authority has already delivered a Serial Number or a 15 HEX ID, you can indicate it below. **If you indicate a preferred coding, the programmer will not be held responsible** for any refusal of registration of your ELT by your country authorities.

Preferred coding: *(leave this blank unless you are sure to know which coding protocol is accepted in your country)*

☐ T/N (tail number)   ☐ S/N (issued by manufacturer)   ☐ 24 bit address (ICAO)   ☐ AOD [_____]
T/N coding restrictions : see note on reverse   *Please indicate Op. Designator and serial number*

☐ National S/N [_____]   ☐ National 15HEX [__][__][__][__][__][__][__][__][__][__][__][__][__][__][__]
S/N issued by country authorities   *15 HEX ID issued by country authorities*

Date: [_____]   **Signature (the operator)** [_____]

Part to be completed by authorized programmer after programming

ELT or DONGLE information

CSN (ex: 284147) [__][__][__][__][__][__]   S/N (ex: LX1100001234) [_____]

Coding information

Protocol ☐ T/N (tail number) ☐ S/N (serialized number) ☐ ICAO (24 bit address) ☐ AOD (Op. Designator)

Identification number [_____]   ELT number [_____]   Country Code (MID) [_____]

Identification (15 HEX ID) [__][__][__][__][__][__][__][__][__][__][__][__][__][__][__]   Checksum [__][__][__][__][__]
Checksum : see note on reverse

Programmer details

Company name [_____]   Date [_____]

Programmer name [_____]   **Signature (the programmer)** [_____]

INSTRUCTIONS

Please respect the following instructions.
Incomplete or incorrect form may result in a delay of the programming of your ELT/Dongle

Purpose
- **First Installation:** for ELT or DONGLE installation on board A/C. Typically for installation of a new Dongle / New ELT in the aircraft.
- **Re-coding:** in case of change of country of registration or in case of re-affectation of an ELT.

Aircraft identification
- **Type of Aircraft:** use ICAO aircraft type designator or Manufacturer/Model
- **MSN:** The "Mainframe Serial Number" shall be completed if ELT/Dongle is delivered to an Aircraft Manufacturer for installation on board a new aircraft.
- **Country:** Country of registration of the aircraft
- **24 bit address:** This is the transponder code, available from Civil Aviation Authority, must be indicated in Hexadecimal format. Eg: "1101 1111 0010 1100 0011 0001" becomes "DF2C31"
- **Tail number:** indicate the Aircraft Registration Marking – Repeat the tail number in Radio Alphabet to avoid any mistake.

Aircraft operator
Before programming the ELT/Dongle, the programmer may have to contact the operator if some information is erroneous or missing.

ELT system configuration
- **Model of ELT to program:** Complete the exact type of ELT to be installed. Eg: KANNAD 406AF, 406AF-Compact, Integra AF… Even if a dongle is used, it is mandatory to indicate which type of ELT will be connected to it.
- **Will it be the only ELT onboard this aircraft? :** This information is mandatory to avoid duplicate coding in case of multiple ELTs.
- **Other ELT(s):** if more than one ELT will be carried by the same aircraft, it is mandatory to indicate as much information as possible including: Type of ELT, coding protocol, rank, 15Hex id etc…
  This will avoid eventual duplicate coding, which is not accepted by the Cospas-Sarsat system.
  This does not apply to an existing ELT which is going to be removed and replaced by this one.
- **IS THERE A PROGRAMMING DONGLE IN THIS INSTALLATION? :** If there is a programming dongle, the dongle must be programmed, not the ELT. In case of doubt, ask your programmer how to identify a dongle.

Coding preferences
The choice of the coding protocol depends on technical and regulatory parameters. This part shall be filled in by the operator **only** if he knows which protocol is acceptable for them. In case of doubt, please leave the programmer to decide of the proper coding protocol.
If you require a specific coding, it MUST be in accordance with Cospas-Sarsat C/S G.005 guidelines.

Note about T/N coding	- this protocol is limited to a maximum of 4 ELTs onboard the same aircraft.
	- T/N coding is not recommended with Integra ELTs due to limited accuracy of the transmitted position.

Date, Signature:
Date and signature of the aircraft operator (initials as signature if electronic format).

> **This form must be returned to your programmer duly completed with required data necessary to program your ELT or Dongle**
>
> **This procedure does not exempt you (the operator) from registering the ELT with the local COSPAS-SARSAT authority (SPOC).**
>
> **As programming is not a maintenance task and does not necessarily involve a PART or FAR145 maintenance station, a release document such as EASA Form 1 or FAA Form 8130 is not required after ELT or DONGLE programming.**

The following instructions are for the distributor / dealer / airline that will program the ELT:

ELT or Dongle information
If the equipment to program is a dongle, provide the CSN and S/N of the dongle.
- **CSN / S/N:** This information is available on the equipment name plate.

Coding information
This information is added when programming the ELT or Dongle.
- Protocol: must be in accordance with country regulations.
- Identification number / ELT Number / Country code: as described in the Kannad ELT commissioning training guide. This data will also be found in the coding sheet.
- Identification (15 HEX ID): computed by the KANNAD e-Prog software. It is a "key information" within the COSPAS-SARSAT system. This number will be used by the operator to register its ELT with local authorities.
- Checksum: if given by the programming software, may be required by some administrations.

Programmer details
- Name of the organization that has performed the ELT or DONGLE programming.
- Signature: date and signature of the programmer (initials as signature if electronic format).

For assistance, please contact Kannad Aviation Customer Support: support.sar@orolia.com