

# XS-4 GPS

## Personal Locator Beacon

ultimate lifeline



**KANNAD beacons have contributed to the saving of many pilots and crews around the world.**

**KANNAD, high quality and high performance distress beacons selected by the world most famous aircraft builders and airlines companies.**

### The smallest and lightest PLB on the market !

- The only PLB that fits into the pilot's pocket !
- Easy and intuitive activation
- Perfect to carry in addition to your onboard ELT installation
- Subscription free and no call charges
- 5 year replaceable battery
- 406 MHz international messaging & 121.5 MHz homing signal
- SOS Morse LED flash light
- Minimum of 24 hours continuous operation

### COSPAS-SARSAT

The Cospas-Sarsat System is the only system to provide distress alerts and location data of 406 MHz beacons activated anywhere in the world.

The distress signal is relayed by the Cospas-Sarsat LEOSAR satellites to the ground stations (LUT) that calculate its position thanks to the Doppler Effect. With a built-in GPS, the GEOSAR satellites receive the signal and position within 5 minutes.

The Mission Control Center (MCCs) network processes the information and informs the nearest Rescue Coordination Center (RCC) so that SAR authorities can organize rescue operations.

### Manage your beacon and get extra advantages !

- Register on our dedicated web site to get 5 year warranty (2 years + 3 years)
- Free access to beacon history (next maintenance date, battery life...)
- Programmer-friendly, easy coding of the beacon

**manageyourbeacon**  
[www.manageyourbeacon.com](http://www.manageyourbeacon.com)



## Perfect to carry in addition to your onboard ELT installation !

The ground breaking new XS-4 GPS Personal Locator Beacon is a compact and versatile 406 MHz emergency location beacon.

## Subscription free, global alert and rescue

The XS-4 GPS transmits two signals simultaneously, one to the subscription free Global 406 MHz international Search And Rescue (SAR) satellite system. The other (121.5 MHz) is a homing signal designed to speed up the local recovery response process. Once activated, the signals will continue to transmit for at least 24 hours. The powerful 406 MHz 5 watt output transmission ensures that a call for help gets through to the international SAR authorities whatever the conditions.

## Activating the XS-4 GPS

### 1) Pull the antenna cover off **IMPORTANT**

The antenna cover is an anti-tamper seal, once broken it cannot be refitted.



### 2) Unwrap the antenna until it stands vertical



### 3) Press the ON button

When the PLB is active, pressing the ON button will cause the indicator light to flash a Morse code SOS pattern. This can be used to attract attention after nightfall. The SOS pattern is repeated four times on each press.



## Kannad PLB Comparison

Kannad PLBs Features	XS-4 GPS PN 1202394	XS-ER GPS PN 1202393
Buoyant	No*, Category 2 * with buoyancy kit	Yes, Category 1
Waterproof	Immersion to 10 m (30 mins)	Immersion to 10 m (30 mins)
Run time (minimum)	24 hours	48 hours
Battery type	Internal (dealer service)	User replaceable
Battery storage	5 years	5 years
Temperature range (Use)	-20 C to +55 C	-20 C to +55 C
Temperature range (Storage)	-30 C to +70 C	-30 C to +70 C
Beacon transmitter	406 & 121.5 MHz	406 & 121.5 MHz
Beacon self test	Yes	Yes
GPS Self test	Yes (with position fix)	Yes (without position fix)
Signaling lamp (SOS LED)	Yes	No
Weight	150g	300g
Size	S x W x L 34 x 47 x 106 mm	54 x 78,4 x 146 mm

## A reliable worldwide maintenance network

KANNAD Worldwide service network provides recoding, battery pack for replacement and maintenance by highly skilled technicians trained by KANNAD, offering prime service to the PLB and ELT owners all over the world.

## TECHNICAL SPECIFICATIONS

<b>STANDARDS</b>	COSPAS-SARSAT
<b>ENVIRONMENTAL</b>	
Exterior Finish	Highly visible yellow
Sealing	Waterproof to 10m (30ft) (IP 58, IPX8)
Operating temperature	Class 2 -20°C to +55°C (-4°F to +131°F)
Storage temperature	Class 2 -30°C to +70°C (-22°F to +158°F)
Altitude	12 192 m (40,000 ft)
<b>BATTERY</b>	
Battery type	6V Lithium Metal
Battery storage	5 years
Battery replacement	By service station
Battery use	Logged by microcontroller.
<b>OPERATION</b>	
Activation	Three stage manual activation
Self test	Tests transmitters, battery and light
SOS flash light	Morse code SOS pattern (30 operations allowed)
<b>TRANSPORTATION</b>	
Air cargo	UN 3091, not restricted IATA SP 188 - PI 970
<b>ELECTRICAL</b>	
406.037 MHz transmitter	± 1KHz, 5W ± 2dB
121.5 MHz transmitter	± 3KHz, 50mW ± 3dB PERP
Transmit Antenna	Deployable flexible vertical blade
Programming	Optical Infra-red link interface
<b>PHYSICAL</b>	
XS <sup>4</sup> GPS	Category 2, will not float
Size (D x W x L)	34 x 47 x 106 mm (1.34" x 1.85" x 4.17")
Weight	150g (5.3 oz)
Receive Antenna	Ceramic Patch
GPS Self test	Position acquisition test (10 operations allowed)

A XS-4 PLB is not an ELT or an EPIRB and does not meet the regulatory requirements for an ELT or an EPIRB.

## APPROVALS

For complete list of approvals, go to KANNAD website [www.kannad.com](http://www.kannad.com)

## PART NUMBERS PLBs

1202394	KANNAD XS-4 GPS
1202395	KANNAD XS-4 GPS (For Australia, delivered with buoyancy kit)
1202393	KANNAD XS-ER GPS

## ACCESSORIES

1202396	KANNAD XS-4 GPS Wrist Lanyard Kit
1202397	KANNAD XS-4 Neck Lanyard Kit
1202398	KANNAD XS-4 Belt Pouch Kit
1202399	KANNAD XS-4 Buoyancy Kit
1202400	KANNAD XS-4 Universal Pouch

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