



KANNAD 406 Manual



20 years of experience in 406 MHz

Martec Serpe-lesm offers to-day the most accomplished range of Kannad 406 beacons with original and innovative features.

COSPAS-SARSAT

COSPAS-SARSAT is a global distress warning system operating in the 406.0 - 406.1 MHz frequency range consisting of :

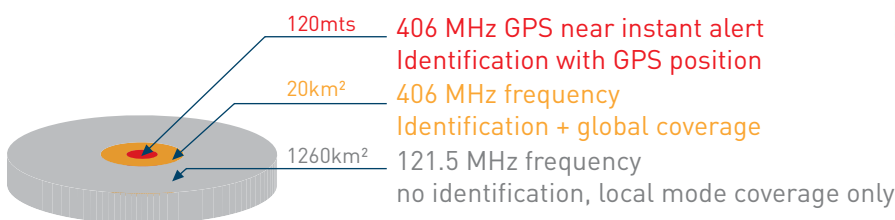
1. Distress beacons (EPIRBs)
2. Satellites on 100 minute polar orbit (LEOSAR) and Geostationary satellites (GEOSAR).
3. Local User Terminals (LUTs)
4. Mission and Rescue Control Centers (MCCs and RCCs).
5. Search And Rescue Services (S.A.R.)

Advantages

- ▶ COSPAS-SARSAT EPIRB FOR SMALL AND VERY SMALL BOATS, WET ENVIRONMENT ...
- ▶ NON HAZARDOUS BATTERIES
- ▶ ALERT VIA COSPAS-SARSAT SATELLITES
- ▶ UNIQUE IDENTIFICATION

GPS on option

- ▶ GPS ACCURACY
- ▶ INSTANT ALERT THANKS TO GEOSTATIONARY CONSTELLATION



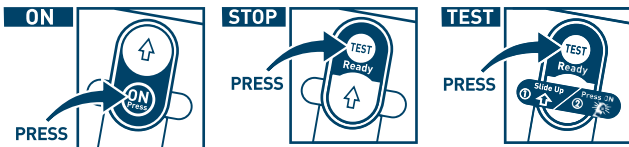
Experts in electronics and communications for severe environments

COSPAS-SARSAT, IMO and GMDSS compliance

KANNAD 406 Manual satellite EPIRB (Emergency Position Indicating Radio Beacon) complies with class 2, category 2 of the Cospas Sarsat global system and is a derivative of the professional **KANNAD 406 Auto** GMDSS (Global Maritime Distress and Safety System) Epirb **with the GPS on option.**

A reliable and performing Epirb for the leisure markets

- An ergonomic bracket made of ASA (Acrylonitrile Styrene Acrylic) for easy installation on board
- No false alarms due to humid environment
- A Unique ID to identify the boat in distress.
- Quick and precise alerting with GPS option
- Simple activation:
 - Manually by pressing ON switch



KANNAD 406 Manual advantages

- | | |
|---------------------------------------|---------------------------------------|
| - Ergonomic bracket | Easy installation and transportation |
| - Small size | Fits in emergency grab bag |
| - Simple and easy activation | A must in an emergency |
| - Reinforced buoyancy | Guarantees stability in heavy seas |
| - A super led flash | For better visibility |
| - A TCXO oscillator | Latest generation to save energy |
| - Innovative architecture (no screw) | Easy maintenance |
| - Non hazardous high energy batteries | For all transport mode |
| - Easy and reliable programming | With an innovative light guide on PCB |

A complete range of KANNAD beacons

KANNAD 406 Auto with built-in GPS on option

For GMDSS, Fishing, Passenger vessels,...
Supplied in a float free container for automatic activation

KANNAD 406 Manual+ with built-in GPS on option

Professionals, Offshore sailing, Super yachts,...
2 activation modes: water switch and manual

A reliable worldwide maintenance network

Our service network all over the world provides recoding and battery replacement, easy and quick maintenance facilities to offer extensive reliability to the sailing community around the world.
The Kannad 406 EPIRBs lead the field with numerous approvals worldwide and have proven to be the best choice in the long term.

GENERAL

Message formats	National location, Standard location
Programming	Via optical pen (MMSI, serial, radio call sign)
Temperature	Operating: -20°C to +55°C Class 2 Storage: -30°C to +70°C
Power supply:	Non-hazardous lithium battery pack (LiMnO2)
Battery life	6 years
Battery replacement	every 5 years (MSC/Circ.1039)
Autonomy	48 hours at -20°C
Epirb dimensions	Ø 140/380mm (antenna deployed)
Weight	1kg (980g without GPS)
Wall mounting bracket	ASA (Acrylonitrile Styrene Acrylic)
Dimensions	134 x 196 x 127mm
Weight	180g

ELECTRONICS

406.028 MHz transmitter

Frequency	406.028 MHz ±1kHz
Output power	5W ±2dB
Modulation	Biphase L1.1 ±0.1 radians

121.5 MHz transmitter

Frequency	121.5 MHz ±3kHz
Output power	50 mW ±3dB PERP
Modulation	A.M. 1400Hz to 500Hz
Antenna type	Flexible vertical monopole
Characteristics	Vertically polarised, omnidirectionnal

GPS Receiver

Centre frequency	Band L1 1.57542 GHz
Maximum number of satellites	12
AntennaType	Ceramic dielectric patch
Characteristics	RH Circular Polarised, +3dB i nominal

Super Led flash

Type	Super LEDs
Intensity	0.75 Candela
Rate	20 flashes per minute

SATELLITE ALERT

Typical alert time	LEOSAR 90 minutes typical GEOSAR 05 minutes typical
Precision With GPS	LEOSAR up to 2NM GEOSAR up to 120mts

APPROVALS

COSPAS-SARSAT certificate: TAC 162
CE 01910



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