

SAFEPRO+ AIS EPIRB

The New SAFEPRO+ AIS EPIRB includes an Infra-Red (Night-Vision) optical signal to aid detection of survivors in low light conditions.



SAFFPRO+ AIS FPIRB

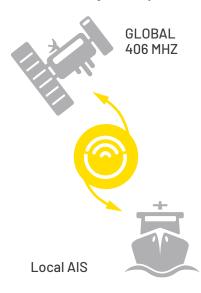
Our unparalleled marine heritage, history of innovation and commitment to quality mean the next generation of SAFEPRO+EPIRBs include previous innovations as standard. They are MEOSAR Compatible® for enhanced detection and location performance, combine the global 406 MHz professional search and rescue alert, with the localised locating and tracking power of AIS, they have a ruggedized base and an easy service battery. The false activation protection of the manual bracket and multiple self-tests all contribute to total user confidence. Customers know they can trust Kannad Marine when their lives are at risk.

The new Kannad Marine SAFEPRO+ EPIRB has the added benefit of Infrared (Night-Vision) optical signal to aid detection of survivors in low light conditions. Infrared is detectable at greater range and in poorer conditions than standard EPIRB lights, therefore further accelerating recovery times.

The world's most powerful EPIRBs

Driving accelerated rescue times via:

- Further enhancing our earlier World's first convergence of 406 and AIS, combining the global alerting of **406 MHz** with the localised locating and tracking power of **AIS**.
- Faster alert detection on the 406 MHz frequency through our MEOSAR compatibility.
- QUADROTECH® EPIRB, with four search and rescue frequencies, the SAFEPRO+ range supports the Alert, Locate, Tracking and Recovery elements of search and rescue.
- Greater location detection speed and accuracy, as the multiconstellation GNSS receivers work with a wider range of satellites including Galileo and GPS.
- **Infrared** is detectable at greater range and in poorer conditions, therefore further accelerating recovery times.





SAFEPRO Auto-Housing

A fully protective, spring loaded enclosure, the float free auto-housing automatically deploys and activates the EPIRB when it is submerged between 1 - 4m. The SAFEPRO auto-housing incorporates fixing points which ensure previous Kannad Marine auto-housing units can be retrofitted with minimum impact, when upgrading your vessels EPIRB.

SAFEPRO range EPIRBs are available as either a category 1 or category 2 EPIRBs:

Category 1 EPIRB models

Supplied inside a float free auto-housing and automatically deployed and activated when in contact with water (although they can also be manually activated).

Category 2 EPIRB models

Supplied with a unique SafeTransfer bracket to prevent accidental activation, once manually removed from the bracket the EPIRB is activated manually or via water contact.

SAFEPRO+ AIS EPIRB Features

Feature	Description
406 frequency	International rescue frequency
AIS capability	AIS for localized rescue
VHF homer	121.5MHz swept tone
GNSS receiver	GPS(L1) + GALILEO(E1), 92 channel, ceramic patch antenna
Optimised for MEOSAR	Enhanced detection capability for accelerated rescue
SafeTransfer	Manual bracket option, allowing transport without activating water switch
Auto-housing option	Automatic deployment when submerged 1-4 m
Activation method	Manual or water activation
SafeCarry	Concealed hands-free easy carry strap
SafeBase	Impact protection
SafeLight	3 high intensity LED strobe lights
Night vision	3 high intensity LED infra red night vision lights
SafeSwitch	Reusable ON power button cover, to prevent accidental activation
Battery storage life	10 years from date of manufacture. (Lithium Iron Disulphide) (see Note 3)
SafeChange	Easy service battery
Global service network	200+ service centres across 80+ countries
Multiple self-tests	120 short tests for system check and 20 Long tests which include testing of the GNSS receivers (see Note 1)
Warranty	1+4 years (see Note 2)
Part of Seas of Solutions' heritage	Developed with Kannad Marine's unique understanding of the technical requirements to fully utilise the Cospas- Sarsat infrastructure

NOTE 1 Recommendation — 1 test a month over a period of 10 years. Long tests twice a year over a 10 year period. Long tests to be conducted in full view of sky. Obstacles will increase time taken for GNSS lock, reducing the battery life.

NOTE 2 Warranty is 1 year from date of purchase, an additional 4 years upon registration with Seas Of Solutions.

NOTE3 As a responsible manufacturer, Seas Of Solutions recommends a 5-year health check. Shore-based maintenance mandated vessels, battery health check or replacements should be carried out in accordance with flag Administration requirements and not exceeding 5 years.

Technical Specifications

406 MHZ TRANSMITTER

Frequency 406.040 MHz
Power output 5 W nominal
Modulation Phase (16K0G1D)

121.5 MHZ TRANSMITTER

Frequency 121.5 MHz
Power output 70 mW nominal
Modulation AM Swept tone (3K20A3X)

AIS TRANSMITTER

Frequencies 161.975 MHz (AIS1); 162.025 MHz (AIS2)

Power output 1 W EIRF

Modulation GMSK/FM (16K0GXW)

GNSS RECEIVER

Constellations GPS, Galileo

Frequencies 1575.42 MHz (GPS, Galileo)
Sensitivity -167 dBm minimum
Satellites tracked 92 channels

OPTICAL HOMER

Day and night vision strobe Light output Flash rate

BATTERY

Type Lithium iron disulphide Operating life 48 hours minimum

Shelf life 10 years from date of manufacture

(see Note 1)

3 points of high intensity LEDs

0.75 cd / 2.5 mW/sr minimum

23 flashes per minute

ENVIRONMENT

Operating temperature -20 °C to +55 °C (-4° F to +131° F) Storage temperature -30 °C to +70 °C (-22° F to +158° F)

Automatic release depth 4 m maximum

DIMENSIONS (EPIRB)

Weight 710 g

Height/Width/Depth 425 X 105 X 105 mm (incl. antenna)

Length of antenna 225 mm

DIMENSIONS (MANUAL BRACKET)

Weight 110 g

Height/Width/Depth $135 \times 125 \times 125 \text{ mm}$

DIMENSIONS (FLOAT FREE ENCLOSURE)

Weight 1075 g

Height/Width/Depth 415 x 135 x 135 mm

STANDARDS

 COSPAS-SARSAT
 C/S T.001; C/S T.007

 Europe/UK
 MED / UKCM

 USA
 USCG & FCC - Pending

International standards IEC 61097-2 ED4

IEC 60945 incl. Corrigendum1 (Portable)

IEC 61108-1 (GNSS variant)

RTCM 11000.5 ITU-R M.1371-5

Industry Canada RSS-287

AS/NZS 4280.1

IMO regulations MSC.471(101): A.662(16); A.694(17);

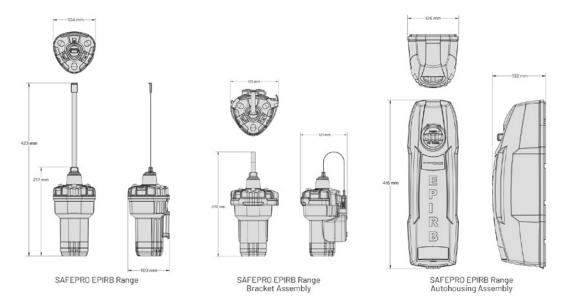
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PART NUMBERS

 SAFEPR0+ AIS EPIRB - Manual
 23-002-011A

 SAFEPR0+ AIS EPIRB - Auto
 23-002-511A

NOTE 1: As a responsible manufacturer, Kannad Marine recommends a 5-year health check at the nearest Kannad Marine approved service agent. Shore based maintenance mandated vessels, battery health check or replacements should be carried out in accordance with flag Administration requirements and not exceeding 5 years.



Safe Operational EPIRB Life

Seas of Solutions Safe Operational EPIRB Life guidance is that EPIRBs should be considered for decommissioning after 12-15 years, as this reduces the risk of environmental impact on beacon performance and ensures end users have beacons with the latest technology. As a result, the SAFEPRO+ AIS EPIRB is supplied with a ten-year battery, but battery replacement kits have a minimum five-year battery, to encourage regular professional checks of the units and reduce the likelihood of the beacons remaining on board vessels beyond the recommended operational life.



www.seasofsolutions.com

sales@seasofsolutions.com