



Accelerated  
Location Detection  
with GPS & Galileo  
receivers



# SmartFind G8 PLUS AIS EPIRB

The New SmartFind G8 PLUS AIS EPIRB includes an Infra-Red (Night-Vision) optical signal to aid detection of survivors in low light conditions.

NEW

This device has not been authorized as required by the rules of the Federal Communications Commission.  
This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

# SmartFind G8 PLUS AIS EPIRB

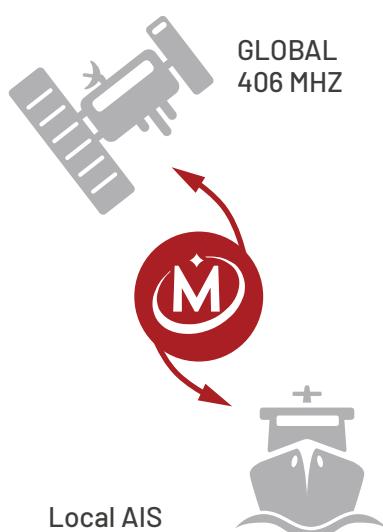
Our unparalleled marine heritage, history of innovation and commitment to quality mean the next generation of SmartFind EPIRBs include previous innovations as standard. They are MEOSAR Compatible® for enhanced detection and location performance, combine the global 406 MHz professional search and rescue 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 McMurdo when their lives are at risk.

The new McMurdo SmartFind G8 PLUS AIS 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 SmartFind G8 PLUS range supports the **Alert, Locate, Tracking** and **Recovery** elements of search and rescue.
- Greater location detection speed and accuracy, as the multi-constellation 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.



# SmartFind G8 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 SmartFind G8 auto-housing incorporates fixing points which ensure previous McMurdo auto-housing units can be retrofitted with minimum impact, when upgrading your vessels EPIRB.

SmartFind G8 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 SmartTransfer bracket to prevent accidental activation, once manually removed from the bracket the EPIRB is activated manually or via water contact.

# SmartFind G8 PLUS AIS EPIRB Features

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

**NOTE 3** 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 (16KOG1D)

## 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	1W EIRP
Modulation	GMSK/FM (16KOGXW)

## 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	3 points of high intensity LEDs
Light output	0.75 cd / 2.5 mW/sr minimum
Flash rate	23 flashes per minute

## BATTERY

Type	Lithium iron disulphide
Operating life	48 hours minimum
Shelf life	10 years from date of manufacture (see Note 1)

## 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 x 125 x 125 mm

## DIMENSIONS (FLOAT FREE ENCLOSURE)

Weight	1075 g
Height/Width/Depth	415 x 135 x 135 mm

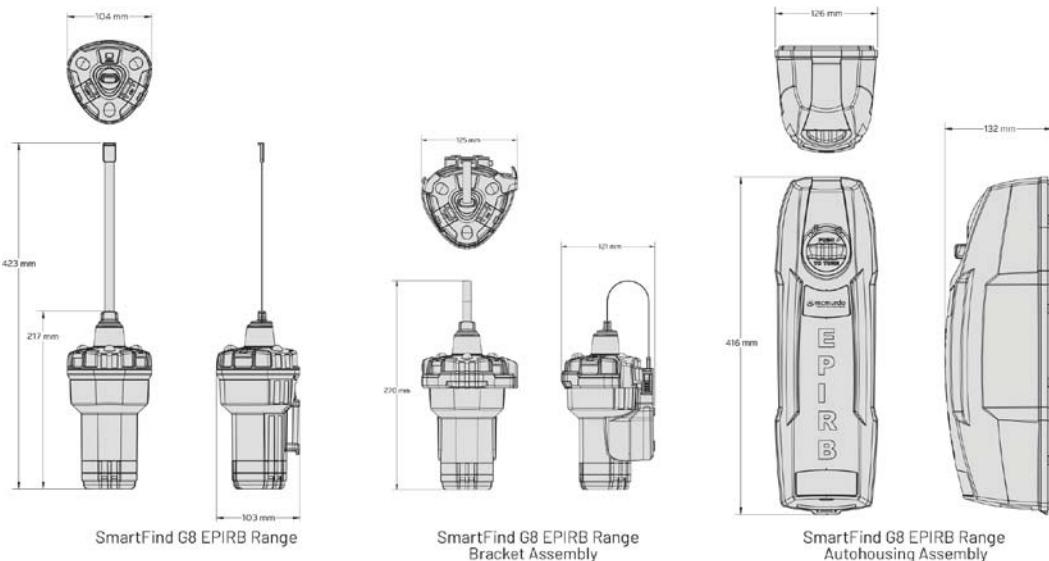
## STANDARDS

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); A.814(19)

## PART NUMBERS

SmartFind G8 PLUS AIS EPIRB - Manual	23-002-001A
SmartFind G8 PLUS AIS EPIRB - Auto	23-002-501A

**NOTE 1:** As a responsible manufacturer, McMurdo recommends a 5-year health check at the nearest McMurdo 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 SmartFind G8 PLUS 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.