

SmartFind G8 PLUS EPIRB RANGE

The New SmartFind G8 PLUS range of Satellite EPIRBs include an AIS locating signal and an Infra-Red (Night-Vision) optical signal, to aid detection of survivors in low light conditions.

Return Link Service (RLS) capability is optional via the SmartFind PLUS RLS EPIRB model. This model allows two-way communication, specifically, receipt of a re-assurance signal confirming professional rescue services have received the distress signal and the user's location is known.



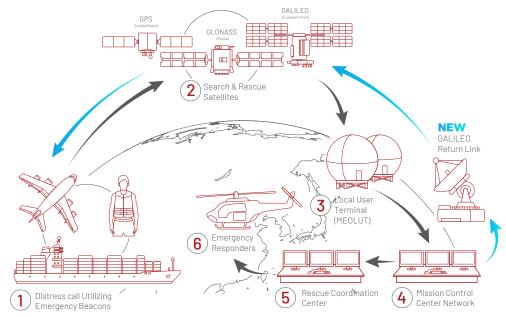
SmartFind G8 PLUS EPIRB Range

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 AlS, 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 range of McMurdo SmartFind G8 PLUS EPIRBs benefit from an AIS locating signal, visible to AIS receiver equipped vessels in the vicinity, and an 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.

Return Link Service capability

Return Link Service (RLS) capability is optional, via the SmartFind PLUS RLS EPIRB model. The Return Link Service allows a two-way communication for the first time. SmartFind PLUS RLS EPIRBs receive a re-assurance signal, in the form of a blue light, indicating the distress signal has been received and that the user's location is known by the professional rescue services.



This light, typically activated 10 minutes after beacon activation, provides a lifesaving re-assurance signal, allowing those in distress, to know that search and rescue professionals are aware of their situation, and they are not alone.

The world's most powerful Satellite 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**.



GLOBAL 406 MHZ

• 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 PLUS EPIRBs are available as either a category 1 or category 2 FPIRBs:

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 EPIRB Range Features

Feature	Description	SmartFind G8 PLUS AIS	SmartFind G8 PLUS RLS
406 frequency	International rescue frequency	•	•
AIS capability	AIS for localized rescue	•	•
Return Link Service	Beacon receives a re-assurance signal, a blue light, indicating rescue services have received the distress signal and the user's location is known.		•
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	•	•
SmartTransfer	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	•	•
SmartCarry	Concealed hands-free easy carry strap	•	•
SmartBase	Impact protection	•	•
SmartLight	3 high intensity LED strobe lights	•	•
Night vision	3 high intensity LED infra red night vision lights	•	•
SmartSwitch	Reusable ON power button cover, to prevent accidental activation	•	•
Battery storage life	10 years from date of manufacture. (Lithium Iron Disulphide) (see Note 3)	•	•
SmartChange	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 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.

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 BPSK (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 1W EIRP

Modulation GMSK/FM (16K0GXW)

GNSS RECEIVER

Constellations GPS, Galileo

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

RLS. RETURN LINK SIGNAL (See NOTE 1)

Service Provider Galileo Indicator BLUE LED

OPTICAL HOMER

Day and night vision strobe
Light output
Slash rate

3 points of high intensity LEDs
0.75 cd / 2.5 mW/sr minimum
3 flashes per minute

BATTERY

NOTE 2:

Type Lithium iron disulphide Operating life 48 hours minimum

Shelf life 10 years from date of manufacture

(see Note 2)

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 - Pending
Europe/UK MED / UKCM - Pending
USA USCG & FCC - Pending
International standards IEC 61097-2 ED4

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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);

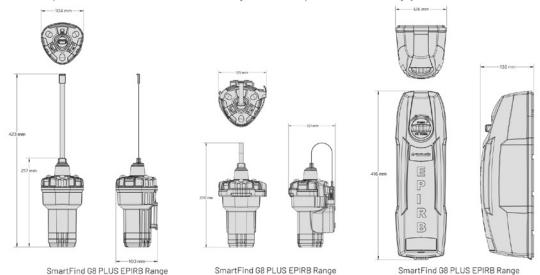
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PART NUMBERS

SmartFind G8 PLUS AIS EPIRB - Manual 23-002-001A
SmartFind G8 PLUS AIS EPIRB - Auto 23-002-501A
SmartFind G8 PLUS RLS EPIRB - Manual 23-002-000A
SmartFind G8 PLUS RLS EPIRB - Auto 23-002-500A

NOTE 1: RLS is available on the G8 PLUS RLS model only.

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 EPIRB range 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.



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