

mcmurdo
SAFETY FOR PROFESSIONALS

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Distributors and agents throughout the world



Dealer:

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McMurdo the Brand

McMurdo is a brand of marine safety and emergency location beacon products, manufactured by McMurdo Ltd. The brand originated in the 1940's, and since that date has been involved in designing and manufacturing marine safety products.

The first McMurdo COSPAS-SARSAT approved EPIRB was produced in 1989, and McMurdo further galvanised its position as a leading brand in safety equipment technology in 1992, with the release of the first McMurdo GMDSS approved Search And Rescue Transponder (SART). McMurdo products have continually led the way in the functionality and accuracy of emergency location beacons, launching a PLB (Personal Locator Beacon) for use on land and sea in 2000. In that same year, GPS technology was introduced to both the EPIRB and the PLB.

2009 saw the launch of the groundbreaking, ultra compact Fast Find 200 range of PLBs, and 2010 the introduction of cutting edge technology with the Smartfind S5 AIS SART.

The McMurdo brand name stands for high quality products, which utilise the latest technology. Organisations such as the Royal Navy, the US Coastguard and countless commercial organisations around the world understand the importance of ultra-reliable high quality equipment, which is why they have chosen McMurdo products for their vessels and their crew.

McMurdo products are used globally, on land and at sea. Where safety is important you will find McMurdo.



Service and Spares

McMurdo Ltd has a complete customer service operation that handles the repair and servicing of our full range of products. From scheduled beacon battery changes, to the service and repair of VHF equipment, our team is here to help.

Our in-house service department operates in support of our worldwide service agents, who are fully trained and certified to service and repair McMurdo equipment. For your nearest service agent please visit www.mcmurdo.co.uk.

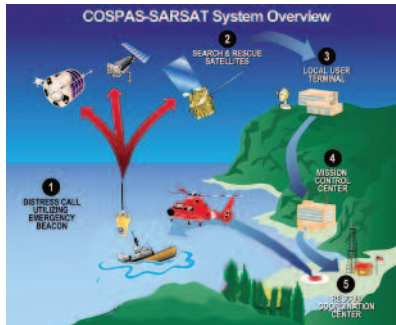
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How does an EPIRB work?

An Emergency Position Indicating Radio Beacon (EPIRB) or Personal Locator Beacon (PLB) is used to alert search and rescue services in the event of an emergency. They do this by transmitting a coded message on the 406 MHz distress frequency. This message is relayed via satellite and earth stations to the nearest rescue co-ordination centre.

406 MHz EPIRBs and PLBs work with the Cospas-Sarsat polar orbiting satellite system which provides true global coverage. The system has an alert delay of typically 45 minutes dependant on when the satellites come into view on the horizon.



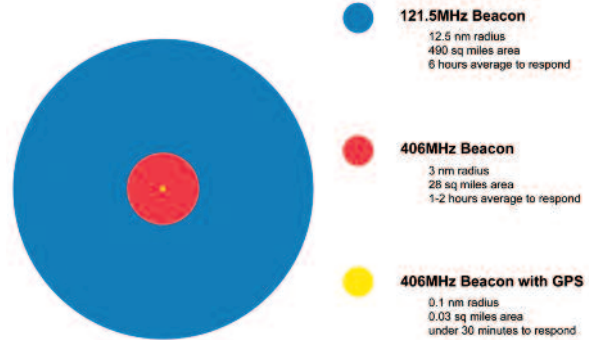
The satellite can determine the position of your EPIRB or PLB to within 5km (3 miles). The coded message identifies the exact vessel to which the EPIRB is registered, or the person the PLB is registered to. This information allows the rescue services to eliminate false alerts and launch an appropriate rescue.

The GPS enabled EPIRBs and PLBs have built-in transmitters that will typically alert the rescue services within 3 minutes. These models are capable of providing positional accuracy of +/- 62 Metres and position updates every 20 minutes, given a clear view skyward.

All McMurdo EPIRBs and PLBs also have a secondary distress transmitter. This transmits on 121.5 MHz and is used for "homing" purposes. When the rescue services get close, this allows them to direction find on the signal. To cater for searches at night, the Smartfind EPIRBs have a high brightness LED flashing light that aids final visual location.

Since its inception in 1982 the Cospas-Sarsat System has provided distress alert information which has assisted in the rescue of over 27,000 persons in over 7,200 distress situations. The Cospas-Sarsat programme assists search and rescue (SAR) activities on a worldwide basis by providing accurate, timely and reliable distress alert and location data to the International community on a non-discriminatory basis.

GPS EPIRBs



The GPS EPIRB and PLBs have been designed to further enhance the lifesaving capabilities of conventional beacons. The standard Global Positioning System (GPS) uses an array of 27 satellites and provides continuous positional information, with a typical accuracy of around 62m. A 406MHz EPIRB such as the Smartfind Plus, or PLB such as the Fastfind 210 and MaxG have a built in GPS. When the beacon is activated in an emergency, positional information is incorporated into the distress message which it transmits.

This incorporation of positional information overcomes the difficulties with location when using geostationary satellites, and can greatly reduce the time it takes for the SAR authorities to arrive on the scene. When speed of response and accuracy of location are important considerations, then the GPS EPIRB/PLB offers the best performance.

Smartfind

Available with a manual bracket or an automatic deployment housing, the Smartfind range meets the demands of recreational boaters and all classes of Commercial vessels alike. This stylish unit is available as a standard 406 MHz EPIRB or, for enhanced position location, with a built in high accuracy GPS.

Key Features

- Internationally Approved
- Transmits on 406 and 121.5 MHz
- Integrated 12 channel GPS (Plus version)
- Non hazardous battery for safe and easy transportation
- Unique CARRYSAFE bracket available for safe transportation
- High brightness LED flashing locator light
- 60 comprehensive diagnostic and self-tests during battery life
- Once activated, will transmit for a minimum of 48 hours
- 5 year battery life
- 5 year warranty



SMARTFIND Manual EPIRB
with Carrysafe bracket

The SMARTFIND Series consists of two models:

E5 SMARTFIND is a 406 MHz EPIRB designed to operate with the COSPAS-SARSAT international search and rescue system. Once removed from its CARRYSAFE mounting bracket the unit can be activated automatically by immersion in water, or manually by following the activation instructions printed on the unit.

The G5 SMARTFIND PLUS has all the advanced features of the standard E5 SMARTFIND with the addition of an integral 12 channel GPS receiver. The addition of a GPS receiver ensures that an accurate position of a casualty is relayed to the rescue services. This can in turn improve the speed of recovery by updating the position of the beacon at regular intervals.



A float free automatic housing is available for both versions of the SMARTFIND.

McMurdo PLB Range

The McMurdo range of PLBs are designed to be carried by individuals as a last resort safeguard against any life threatening incidents that may occur anywhere in the world. Whether alone or within a group, on holiday, at work, carrying out your sport or hobby, if you ever find yourself in a remote area, land or sea, without any other form of communication, the Fastfind PLB comes into its own. Once activated it transmits a unique identification signal via the international search and rescue satellite system operated by COSPAS SARTSAT on 406 MHz. The signal is then quickly passed to regional search and rescue authorities who can rapidly get to the scene.

There are now four models within the McMurdo PLB range, the Fastfind Max and Fastfind MaxG, which have a 48 hour battery operation life and the new ultra compact Fast Find 200 and Fast Find 210 which will slip into the smallest pocket.

Fastfind PLB's use the same advanced technology as McMurdo EPRIB's, miniaturised into a compact and rugged, palm sized unit. They are designed to withstand the harshest of environments while still being extremely easy to operate and small enough to carry with you at all times.

Fast Find 200/210 PLB

FAST FIND is the most versatile 406 MHz emergency location beacon available. It is waterproof to 10 metres, only 106mm long and weighs just 150g. It will slip into the smallest pocket and users can be confident of being able to alert professional search and rescue services if they are unlucky enough to encounter life threatening situations, even in the most remote parts of the world.

FAST FIND complies with tough international standards. It operates on the global COSPAS SARTSAT 406MHz search and rescue satellite communication system. The system is supported by international government search and rescue authorities around the world, so a call for help will be acted upon and fast.

- Internationally approved
- Compact, lightweight and waterproof
- Transmits on 406 and 121.5 MHz
- Global emergency alerting via COSPAS-SARTSAT satellites
- 50 channel integral GPS (210 model)
- 60 comprehensive diagnostic and self-tests during battery life
- 5 year battery life
- 5 year warranty
- Minimum of 24 hours continuous operation
- SOS Morse LED flash light
- Typical alert to rescue services 3 minutes (210 model)
- Simple three-stage activation
- Accessories available



Fastfind 210
with integral
50 channel GPS

Fast Find 200/210 PLB Accessories

A range of accessories are available to personalise the usage and carriage of the Fast Find 200 / 210 PLB, these include:

- Buoyancy Kit (containing two floatation pouches, one black and one yellow)
- Universal Pouch (yellow)
- Belt Pouch (black)
- Neck Lanyard (430mm – 470mm)
- Wrist Lanyard (160mm – 190mm)



Fastfind Max/MaxG PLB

The Fastfind Max and MaxG bring added endurance to safety with 48 hour operational battery life at temperatures as low as -20°C.

The battery packs have a five year storage life and are easily user replaceable.

Both models have our unique discreet antenna deployment system with simple three-stage, manual operation to prevent any risk of accidental or false activation. In its stored state, the antenna is completely hidden from view and fully protected against rough handling. Once deployed, the antenna automatically springs into the optimum position ready for use.



Fastfind MaxG with inbuilt GPS

The Fastfind MaxG's integral 16 channel GPS receiver gives a typical positional accuracy of +/- 62 metres and new position updates every 20 minutes, significantly reducing the normal search area from a 28sq nm area, when given a clear view skyward. MaxG also has visual indication of GPS position acquisition.

- Internationally approved
- Compact and lightweight
- Waterproof to 10 metres
- Buoyant
- Transmits on 406 and 121.5 MHz
- Global emergency alerting via COSPAS-SARSAT satellites
- 16 channel integral GPS (MaxG model)
- Minimum of 48 hours continuous operation
- Typical alert to rescue services 3 minutes (MaxG model)
- Simple three stage activation
- Carry pouch and lanyard included
- 60 comprehensive diagnostic and self-tests during battery life
- 5 year battery life
- User replaceable battery
- 5 year warranty

Carrying the Fastfind could not be simpler. Supplied with a strong but flexible lanyard cord and a smart carry pouch, the PLB is easy and convenient to carry with you at all times.



McMurdo's PLB range consists of the following models:

Operation life at minimum temperature			
	GPS	-20°C 48 hour	-20°C 24 hour
Fastfind 200 PLB			•
Fastfind 201 PLB*			•
Fastfind 210 PLB	•		•
Fastfind 211 PLB*	•		•
Fastfind MaxG PLB	•	•	
Fastfind Max PLB		•	

*Australian and New Zealand versions only

The Fastfind range of PLB products from McMurdo provide professional mariners, fishermen and those involved in outdoor adventure activities with the very best chance of being found without delay in the event of an emergency.

PLB's are intended for use within the maritime and land environments where permitted by national administrations.

The Fastfind PLB Dive Canister

This waterproof aluminium housing enables a diver to carry the Fastfind PLB to depths of 150m (500ft), with the assurance that once they have returned to the surface they have the security of having access to the Fastfind PLB if there are any threats to their safety.



- Dimensions – 162mm x 93.5mm
- Weight – 900g

Accessories

Grab Bag

Designed for marine and land use, this waterproof and buoyant Grab Bag is perfect for holding emergency equipment.



- High visibility
- Buoyant
- Waterproof
- Dimensions – 35cm x 15cm x 24cm

Grab Bag XL

Made from high quality material the Grab Bag XL has an external EPIRB pouch and flare stowage pockets.

- Buoyant
- Waterproof
- Watertight zip and velcro closure
- Carry handles and shoulder strap
- Large capacity – 44cm x 22cm x 30cm



⚙️ R1 Waterproof Handheld VHF Radio

The R1 VHF radio is designed specifically to meet worldwide legislation, and exceeds the demanding IMO requirements for GMDSS survival craft radios. It is 100% waterproof and designed to cope with the toughest marine environments, making it an ideal "Fit and Forget" item.

- Tough, reliable, 100% waterproof and drop proof
- Exceeds GMDSS specification for use in Survival Craft
- Easy to use
- Three channels: 6, 13 and 16
- Floats
- Long life lithium battery
- Test battery available



⚙️ R2 Handheld GMDSS VHF Radio

The McMurdo R2 GMDSS fully featured 19 channel VHF radio fits securely and comfortably in the palm of the hand. The R2 GMDSS has been built to meet the latest stringent IMO, GMDSS and ETSI standards. This reliable and easy to use radio is 100% waterproof and drop tested to cope with the toughest marine environments.

- Fully featured all 19 Simplex channels as permitted by GMDSS legislation
- Superior voice quality and fully waterproof
- 2.5 watts RF output
- Selectable dual/tri watch function
- Priority channel
- All channel memory scan
- 8 hour battery life at -20°C
- Variable LCD display illumination
- Approved to latest GMDSS, IMO, ETSI Resolutions



A SART is a 'search and rescue locating device' designed to assist in survivor craft location during search and rescue operations.

The SART is primarily intended for fitment by SOLAS vessels under carriage requirement rules. SOLAS fitting rules differ depending on type and size of vessel and survival craft. In general, at least one search and rescue locating device is carried on each side of every passenger and cargo ship over 500 gross tons. Smaller SOLAS classified vessels are required to carry at least one search and rescue locating device.

The SART should be stowed on board in a location where it can be rapidly placed in any survival craft. Once activated, the SART may be suspended inside the survival craft or mounted in an elevated position using the integrated extending pole.



S4 Rescue Radar SART

The S4 Rescue Radar SART is a 9GHz X-band radar transponder which offers proven reliability. Extremely simple to use, the S4 Rescue can be operated even with gloved or wet hands. Its compact design makes it suitable for packing in liferafts or as a carry off device.

When a radar signal is received from a ship or aircraft, the S4 Rescue automatically transmits a response signal, which clearly identifies the survival craft on the radar screen by means of a stream of 12 in-line dots. Once activated, the S4 will remain in standby mode for over 96 hours.

The S4 Rescue has been designed for reliable operation in the toughest of marine environments.

- Ship or survival craft options
- Waterproof to 10mtrs
- Buoyant
- Compact and lightweight
- Replaceable, 5 year battery pack
- Audio/visual indication of operation
- Built-in test facility
- Integral lanyard
- Mounting options - internal/external



Smartfind S5 AIS SART

The new Smartfind S5 AIS SART is a manual deployment survivor location device intended for use on life rafts or survival craft. It meets IMO SOLAS requirements and is an alternative to a Radar SART. Compact, easy to operate and deploy, the Smartfind S5 AIS SART is a portable device packed inside a quick release carry off bag for quick evacuation.

Smartfind S5 AIS SART transmits target survivor information including structured alert messages, GPS position information and serialised identity number. Once activated the Smartfind S5 AIS SART transmits continually for a minimum of 96 hours. An inbuilt high precision GPS provides accurate position information to assist in quick recovery of survivors.

Whether wall mounted in the ships bridge or packed inside a survival craft, the highly visible and buoyant carry case affords maximum protection.

Key Features

- Internationally approved
- Ship or Survival craft options
- Waterproof to 10m
- Buoyant/floats
- Rugged, compact and lightweight
- Non-hazardous battery for safe and easy transportation
- Minimum 96 hour operational battery life
- 6 year battery life
- Visual indication of operation
- Built-in test facility
- Integral lanyard
- Mounting options – Internal/External
- Comes complete in its own carry case

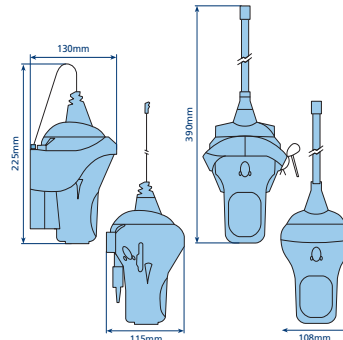


Smartfind & Smartfind Plus

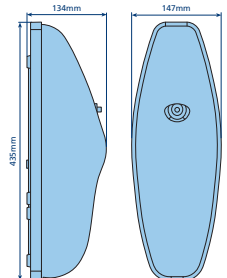
Approvals	Satellite system	Cospas-Sarsat T.001/T.007
	Europe	IEC 61097-2 Marine Equipment Directive
	USA	USCG/FCC approved FCC ID : KLS-XX-X
	Worldwide	IEC 61097-2
406 MHz Transmitter	Meets IMO regulations	A.662(16); A.694(17); A.810(19); A.814(19)
	Operating frequency	406.028 MHz ±1 kHz
	Power output	5 W typical
121.5 MHz Homer	Modulation	Phase (16K0GID)
	Operating frequency	121.5 MHz ±3.5 kHz
	Power output	50 mW radiated typical
GPS Receiver (Smartfind Plus only)	Modulation	Swept tone AM (3K20A3X)
	Centre frequency	1.57542 GHz
	Sensitivity	-175 dBW minimum
Strobe light	Satellites tracked	12 max
	Type	Two high intensity LEDs
	Light output	0.75 cd minimum
Battery	Flash rate	23 flashes per minute
	Type	Lithium manganese dioxide
	Operating life	48 hours minimum
Environment	Shelf life	5 years typical in service
	Operating temperature	-20 °C to +55 °C (-4° F to +131° F)
	Storage temperature	-30 °C to +70 °C (-22° F to +158° F)
Physical	Automatic release depth	4 metres max. (13 feet)
	Weight	770 grams (1.7 lb)
	Height of body	21 cm (8.2 inches)
	Length of antenna	18 cm (7 inches)

This device complies with the GMDSS provisions of part 80 of the FCC rules. The GPS module (where fitted) complies with the relevant sections of IEC 61108-1: 2003.

Smartfind in CARRYSAFE Bracket



Auto FLOAT FREE housing for Smartfind



Fastfind 200/210

406 Beacon Specification Standards applied

COSPAS-SARSAT
T.001/T.007 class2
RTCM SC110 STD 11010.2
ETSI EN 302-152-1
AS/NZS 4280.2
NSS-PLB06

Environmental

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 (40,000 feet)

Battery

Battery Type 6V Lithium Metal
Battery storage 5 years minimum
Battery replacement By service centre
Battery use Logged by microcontroller.

Operation

Activation Three stage manual activation
Self test Tests transmitters, battery and light
SOS flash light Morse code SOS pattern (30 operations allowed)

Transportation

Air cargo UN 3091, not restricted, IATA SP 188 - PI 970

Electrical

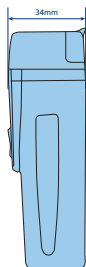
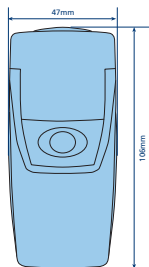
406.037 MHz transmitter ± 1KHz, 5W ± 2dB
121.5 MHz transmitter ± 3KHz, 50mW ± 3dB PERP
Homer sweep direction UP or DOWN
Transmit Antenna Deployable flexible vertical blade
Programming interface Optical Infra-red link

Physical

Fast Find 200, 210 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)
GPS (Fast Find 210 only) 50 channel
Receive Antenna Ceramic Patch
GPS Self test Position acquisition test (10 operations allowed)

Part Number

91-001-200A Fast Find 200 PLB retail pack
91-001-210A Fast Find 210 PLB (with GPS) retail pack



Fastfind Max and Fastfind MaxG

General

Approved to COSPAS-SARSAT T.007
Class 2, TAC-184

Internationally type approved, a list of current type approvals is held in the Fastfind Max section of the McMurdo web site; www.mcmurdo.co.uk

Complies with relevant clauses EN 60945
RTCM 76-2002/SC110-
STD V1.1

Operating temperature range -20 °C to +55 °C
Storage temperature range -30 °C to +70 °C
Operational life, Class 2 48 hours minimum at
-20 °C

Category 2, manual activation
Weight 300 g
Buoyancy Buoyant
Sealing Waterproof to
5 m immersion

Temporary immersion 10 m

Battery type, Class 2 11 V lithium iron disulphide
Battery expiry 5 year storage life
Battery change User replaceable

406.037 MHz transmitter

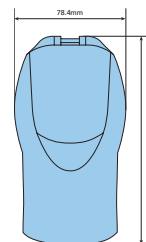
Frequency 406.037 MHz ±1 kHz
Output power 5 W±2 dB
Data encoding Bi-phase L
Modulation Phase modulation; 1.1 rads ±0.1 rads

121.5 MHz transmitter

Frequency 121.5 MHz +3 kHz
Output power 50 mW ±3 dB PERP
Sweep direction Programmable UP or DOWN

Number of GPS satellites tracked 16
Indication of GPS position Visual
GPS Antenna Ceramic dielectric patch

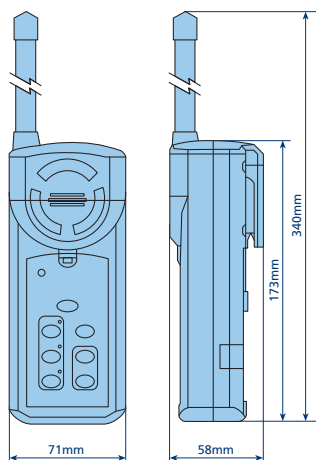
Programming interface Infra-red diode



Technical Specifications

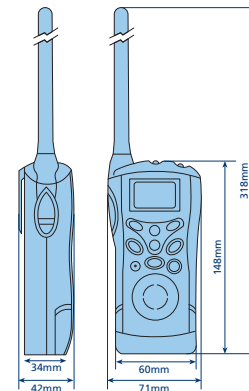
R1 VHF Radio

Approved to	ETS300-225/A1: 1997 plus relevant section IMO, ITU, SOLAS FCC part 80, (CFR47) GMDSS rules EU MED (Ship's Wheel) approved EMC Standard EN 300 828: 1998
Weight:	less than 400 g
Temperature:	-20°C to +55°C working, -30°C to +70°C storage
Battery:	Primary (lithium)
Battery storage life:	4 years
Battery life:	12 hours (10%/10%/80% duty cycle-transmit/receive/squelched)
Channels:	Ch 6, 13 and 16
Water resistance:	Waterproof to a depth of 1m
Buoyancy:	Unit will float
TRANSMIT	
Output Power:	0.5 watts ERP
Current Consumption:	350mA
RECEIVE	
Audio Output Power:	0.4 watts (1kHz tone, 3kHz deviation)
Current Consumption:	150mA at rated audio power 10mA squelched



R2 VHF Radio

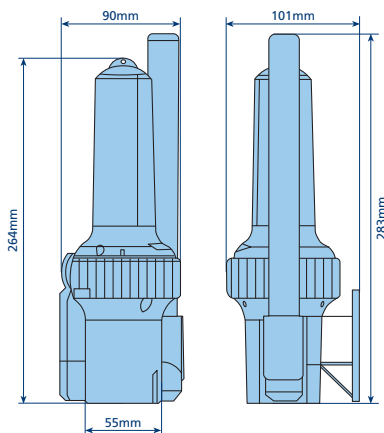
General Performance and Approvals:	in accordance with the minimum requirements of ETS300-225. IMO Resolutions A 694(17) and A809 (19) ITU regulations appendices 18 and 19 SOLAS 1974 and amendments EN 60945 (EMC) EU Marine Equipment Directive (Ship's Wheel) FCC Part 80 GMDSS Rules (CFR47)
RF output power:	2 settings 2.5 Watts/1 Watt
Number of channels:	19 Simplex channels (6,8,9,10,11,12,13,14,15,16,17,67,68,69,71,72,73,74,77) as permitted by GMDSS legislation
Frequency range:	155-163MHz
Receiver A.F output power:	0.4 Watts
Operational function:	Dual watch. Scan memory. Squelch. Volume. Scan all (with delete). Scan Priority. Tri-watch (16, priority, working channel). All the above subject to requirements of national regulatory authorities.
Illumination:	Channel up/down, on/off, high/low power
Display:	LCD indication of channel and other operational parameters
Antenna:	Removable – stud mounted for strength
Weight:	Radio with Lithium battery 370g
Operating temperature:	-20°C to +55°C
Storage temperature:	-30°C to +70°C
Waterproof:	Fully submersible to a depth of 1m including a 45°C thermal shock
Drop resistance:	Will withstand a 1m drop on any face onto a hard surface
Environment:	Corrosion proof, UV resistant, oil resistant
Battery life:	Lithium 8 hours minimum at -20°C (10% high power transmit, 10% receive, 80% squelched)
Lithium battery storage life:	4 years
NiCad battery option	



Technical Specifications

S4 SART

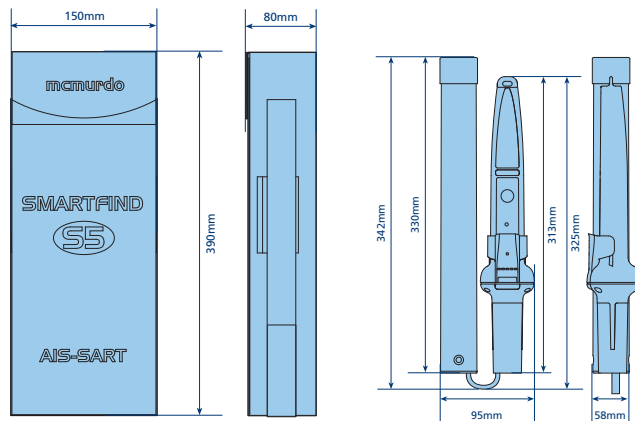
Receiver Response:	9.2–9.5 GHz, sensitivity better than -50 dBm
Transmitter Response:	12 forward and return sweeps through the range 9.2–9.5 GHz. Nominal sweep times 7.5_s forward and 0.4_s return.
Radiated Power (ERP):	Not less than 400 mW (+26 dBm)
Duration of Operation:	96 hours in standby condition followed by a minimum 8 hours of transmission while being continually interrogated with a pulse repetition frequency of 1 kHz.
Temperature Range:	-20°C to +55°C operational -30°C to +65°C storage
Effective Antenna Height:	1 metre or greater
Weight:	360g (without mast or bracket) 510g (with mast) 530g (with mast & bracket)
Dimensions:	264mm long x 90mm diameter
Battery replacement interval:	5 years



Smartfind S5 AIS SART

Beacon Specification Standards applied

AIS SART	IEC 61097 -14, IEC 60945	
Radio ITU	^ R M.1371	
GNSS / GPS	IEC 61108-1	
IMO	MSC.246(83)	
Type	IMO AIS SART	Non float free
Operation	Manual activation switch	Protected by anti tamper cover.
	Self test	Checks transmitter, battery, GPS and indicators.
AIS Transmitter	Operating frequency	AIS1, 161.975 MHz AIS2, 162.025 MHz
	Power output	1 W EIR
	AIS message type	1, 14
	Modulation	GMSK
	Antenna	Integrated vertical element
Battery	Type	Lithium metal
	Operating life	96 hours minimum
	Storage	6 years
	Service	Replaceable
GNSS	GPS	20 channel
Environment	Operating temperature	-20 °C to +55 °C
	Storage temperature	-30 °C to +70 °C
	Waterproof	Immersion to 10m
	Buoyancy	Floats
	Exterior Finish	Highly visible orange
	Compass safe distance	0.2m
Physical	Weight (main unit)	160 grams
	Weight, (including pole)	450 grams
	Length including pole extended	155 cm
	Lanyard	10 m, 50Kg breaking strain
Mounting	Stowage case (packed)	940g H390 x D80 x W150 (mm)
	Bulkhead bracket	230g



Glossary

AIS SART

Automatic Identification System Search And Rescue Transmitter.

Automatic Activation

An EPIRB that is activated when it comes in contact with water.

Automatic Deployment

An EPIRB that is automatically released from its housing when the integral HRU is submerged.

Category 1 EPIRB

An EPIRB that is automatically deployed and activated when in contact with water. The EPIRB may also be manually deployed and activated.

Category 2 EPIRB

A manually deployed EPIRB. Once removed from its bracket this EPIRB will be automatically activated when in contact with water, or can be manually activated.

Class 1 EPIRB or PLB

Rated to operate down to -40°C.

Class 2 EPIRB or PLB

Rated to operate down to -20°C.

COSPAS-SARSAT

International satellite system for search and rescue. A joint operation between France, Canada, Russia and the USA who monitor the 406 MHz satellite system.

EPIRB

Emergency Position Indicating Radio Beacon.

FCC

Federal Communications Commission (USA).

GEOSAR

Geostationary Search And Rescue system. Part of the COSPAS-SARSAT satellite system.

GMDSS

Global Maritime Distress and Safety System.

HRU

Hydrostatic Release Unit. A release mechanism activated by water pressure.

IMO

International Maritime Organisation.

LEOSAR

Low-altitude Earth Orbiting Search And Rescue System.

LUT

Local User Terminal. A ground receiving station that picks up the initial EPIRB signal and relays it to the Mission Control Centre. The LUT also calculates the position the signal was transmitted from.

Manual Activation

An EPIRB that is activated by the user.

Manual Deployment

An EPIRB that is released from its bracket by hand. McMurdo EPIRBs are available with either a manual "Carrysafe" bracket or an Auto Housing.

MCA

Maritime and Coastguard Agency (UK).

MCC

Mission Control Centre. The MCC manages satellite information from the LUT and sends an alert to the Rescue Coordination Centre for the region.

MED

Marine Equipment Directive. European certification for equipment that meets the standards required by the IMO and SOLAS.

MOB

Man Overboard.

NOAA

National Oceanic and Atmospheric Administration (USA).

PLB

Personal Locator Beacon.

RDF

Radio Direction Finder.

RNLI

Royal National Lifeboat Institute.

SAR

Search And Rescue.

SART

Search And Rescue Transponder

SOLAS

Safety Of Life At Sea. Minimum standards of safety set out by the International Maritime Organisation.

S-VDR

Simplified Voyage Data Recorder.

UIN

Unique Identifier Number programmed into an EPIRB or PLB.

USCG

United States Coast Guard.

Wheelmark

Awarded to products that conform to International Maritime Organisation (IMO) type approval.

