



# SAFELINK EPIRB User Manual



SafeLink Category 2



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### End of Life Statement

At the end of the products useful life, it is vital that the battery is removed to prevent false alerts. False alerts cause expensive disruption to Search and Rescue services and may endanger lives as a consequence.

# Safe disposal



Contains traces of lithium, may contain traces of lead and brominated flameretardants (BFRs), both in the housing material and circuit boards.

DO NOT INCINERATE

Always dispose of this product in a sensible and considerate manner. For example, do not simply discard the product in the domestic waste. Instead, take it to a civil recycling facility, or contact McMurdo Ltd for further advice.

# RECOMMENDATIONS AND SAFETY NOTICES

- This EPIRB is an emergency device for use only in grave and imminent danger.
- False alerts endanger lives. Help to prevent them; understand how to activate and deactivate your equipment. Intentional false alerts may involve penalties.
- Read the complete manual before installing, testing or using the EPIRB.
- Ensure you test the EPIRB monthly
- Ensure the EPIRB is registered with your local authorities (Flag State nation)
- The EPIRB contains no user serviceable parts. Do not open. Return to your dealer for battery replacement or other service.
- This device contains Lithium batteries; do not incinerate, puncture, deform or short-circuit. Take care if you need to dispose of these batteries or the complete EPIRB.
- This device emits radio frequency radiation when activated. This radiation is not classed as harmful; however, it is advisable not to handle the antenna while the unit is activated.





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# **1. INTRODUCTION**

### 1.1. COSPAS-SARSAT system description

COSPAS-SARSAT is a global distress warning system operating in the 406.0 - 406.1 MHz frequency band. The 406 MHz frequency coded with the beacon ID, is used to determine the position of the beacon to alert the nearest Search and Rescue Services (S.A.R.).

The system consists of:

- 1. Distress beacons;
- 2. Satellites on polar orbits (LEOSAR) and geostationary satellites (GEOSAR);
- 3. Local User Terminals (LUTs);
- 4. Mission and Rescue Control Centers (MRCC's).
- 5. MCCs receive alerts produced by LUTs and forward them to Rescue Coordination Centers (RCCs) or Search
- 6. and Rescue (S.A.R.) Points Of Contacts



Figure 1: Cospas-Sarsat System

### 1.2. Immediate alerting and location calculation

When activated, the SafeLink beacons transmit, in the 406 MHz frequency, a coded message with a unique number to identify the distress and the beacon's owner, and the GPS position. This message is picked up by the COSPASSARSAT satellites which store it and continuously retransmit it to the Local User Terminals (L.U.T) Thanks to the geostationary satellites (GEOSAR), the distress is received within minutes and transmitted anywhere in the world.

Thanks to the orbital satellites (LEOSAR), the position of the distress is calculated within one nautical mile anywhere in the world using Doppler techniques. The typical waiting time for calculating a position in average latitudes is less than one hour.

**Thanks to the built-in GPS receiver**, its position (accuracy typically about 120 meters) will be transmitted by the beacon within minutes following the distress.

The data are processed and retransmitted to Mission and Rescue Control Centers (MRCC's) and to the Search And Rescue Center (RCC or S.A.R.) nearest to the distress to organize the rescue operations.

The 121.5 MHz frequency is also transmitted by the beacon and is used as a homing frequency in the final stages of rescue.

# 2. APPLICATION

This EPIRB (Emergency Position Indicating Radio Beacon) is designed for use in maritime emergencies, and is approved for these contingencies.

It is not designed or recommended for use on land or in the air.

Use the EPIRB only in situations of grave and imminent danger. Intentional false alerts may result in penalties.



# **3. REGISTRATION**

This EPIRB must be registered with the appropriate national authority.

Refer to Section 10. MANDATORY REGISTRATION page 12.

The function of the EPIRB is to send an alert to the COSPAS-SARSAT satellites. How soon an alert is received depends on the positions of the satellites at the time, and can be influenced by overhead obstructions aboard the vessel. Rescue time following an alert depends on the overall performance of the Search and Rescue organisations.

### 4. DESCRIPTION

SafeLink beacons are Emergency Position Indicating Radio Beacons (EPIRB) Float Free version category 1 (SafeLink Auto) or non Float Free version category 2 (SafeLink Manual+). Both versions are fitted with a built-in GPS.

### 4.1. Container and mounting bracket description

The beacon is supplied either in an automatic container (A) for the Float Free version category 1, or with a wall mounting bracket for the Non Float Free version category.

The container (A) is designed to protect the beacon and to ensure its automatic release in the event of a ship wreck thanks to the HAMMAR H20 release system (1A). This container is also fitted with a locking pin (2A). It is mounted either in horizontal position on the wheel house or deck of the vessel, or in vertical position against a bulkhead or any vertical and flat surface (§ 8.2.1. Installation of container).

When installed in its container, a magnet avoids beacon activation (water, moisture).

The wall mounting bracket (B) is designed to be mounted vertically against a bulkhead or any vertical flat surface. The mounting bracket is fitted with a locking pin (1B). When installed in its mounting bracket, a magnet avoids beacon activation (water, moisture).





# 4.2. Beacon Description

- 1. Tamper proof seal
  - to prove the beacon has been intentionally activated.
- 2. Locking system
  - to avoid unintentional activation of the beacon.
- 3. TEST pushbutton:
  - to perform a self-test;
  - to stop the beacon transmission if manually activated by ON button if required by authorities.
- 4. ON button:
  - to activate manually the beacon.
- 5. Strobe lights:
  - to improve or help visual localization of the beacon by the SAR operations.
- 6. Beacon control lamps (red and green):
  - to check good operation when activating the beacon;
  - to check good operation when performing a self-test;
- 7. Programming led:
  - to program the beacon (by manufacturer or authorized programming stations).
- 8. Water switch contact:
  - to activate automatically the beacon when submerged in water.
- 9. Retroreflective tape
- 10. Tether line:
  - to secure the beacon to a liferaft, life jacket, boat, etc.
     Important: The tether line is used to moor the EPIRB when floating in the water. Do not tie lanyard.
  - to ship when installing beacon inside bracket.
- 11. 406 / 121.5 MHz antenna.





# **5. TEST INSTRUCTIONS**

Test of 406 / 121.5 MHz frequencies.

It is recommended to perform a self-test once a month. The self-test may be performed with the beacon inside its bracket or container.

NOTE: This check shall only be conducted during the first five minutes of any UTC hour.

- 1. Press TEST / READY push button (3) for 2 seconds.
- 2. During the test, the strobe lights (5) blink, the buzzer transmits an audible signal, and the red programming led (7) flashes once.
- 3. At the end of the test, the result is displayed by green (6a) or red (6b) leds:
  - Green led (6a), 1 flash indicates the system is operational;
  - Red led (6b), 1 flash indicates the test has failed.

Repeat 3 times to confirm failure before contacting agent.

NOTE: Do not confuse the red programming led (7) and the «default» red led (6b).

### **6. INSTRUCTIONS FOR USE**

WARNING: It is unlawful to transmit a distress signal unless an emergency exists. Do not operate inside life raft or under any similar cover of canopy. Do not obstruct GPS antenna's view of sky to maximize self-locating performance (do not place the hands over the transparent dome of the beacon).

### 6.1. Automatic activation

IMPORTANT: Only for SafeLink Auto Float Free version, category 1.

If the vessel sinks, the release system ejects the cover to enable the beacon to rise to the surface. The beacon is automatically activated when submerged in water and out of its container. The beacon should be recovered and tied to a life raft to locate the survivors and not the wreck

location.



### 6.2. Manual activation

### 6.2.1. Beacon removal

### SafeLink Auto category 1 (Float Free)

Remove the beacon from its container:

- (1) Lift up the red locking pin of the container;
- (2) Remove the locking pin;
- (3) Remove the cover of the container and extract the beacon.



# 

# SafeLink Manual+ category 2 (Non Float Free)

Remove the beacon from its mounting bracket:

- (1) Lift up the red locking pin;
- (2) Pull and remove the red locking pin to unlock the bracket;
- (3) Extract the beacon from the mounting bracket.



# 6.2.2. Activation by water switch sensor

Tie the beacon with lanyard before throwing overboard.



The beacon will start to transmit as soon as submerged (water switch sensor activation). **TO STOP BEACON:** remove the beacon from water. Transmission will stop 10 seconds after.

# 6.2.3. Manual Activation by ON pushbutton





- (1) Break the seal by pushing the locking system up.
- (2) Press ON pushbutton for 1 at least second.
- (3) The buzzer transmits an audible signal every second.
- (4) The beacon performs a self-test.
- (5) After the self-test, only the white strobe lights blink 3 seconds. The buzzer continues to transmit every second.
- (6) Tie the beacon with the lanyard to the boat or a life raft and throw it overboard.

TO STOP THE BEACON: press TEST pushbutton.



# 7. FALSE ALARMS

### 7.1. False alarms prevention

Important: before extracting the beacon, check there is neither salt nor moisture on the water switch sensor. Clean if necessary (risk of activation).

False alarms caused by accidental activation of beacons result in unnecessary search and rescue services.

Therefore, if the beacon has been activated by mistake, it is mandatory to:

- (1) Immediately contact the nearest search and rescue authorities (coast guards, etc.) to tell them it is a false alarm to stop SAR operations. Report:
  - - beacon unique ID (15 hexadecimal code on label);
  - - time and duration of alarm;
  - - location when activated.

(2) According to instructions of authorities, manually de-activate the beacon (see § 7.2.)

### 7.2. Beacon de-activation

If the beacon has been activated by mistake, de-activate as indicated below (according to instructions of authorities):

### 7.2.1. Beacon overboard

- Remove the beacon from water;
- wait a few seconds for the water switch sensor to de-activate;
- if the beacon still transmits (flash operating), de-activate it manually (see § 7.2.2.).

### 7.2.2. Beacon manually activated

- Press and release the TEST button for at least 2 seconds;



- if the beacon still transmits (strobe lights operating), stop the transmission by fully disabling the beacon (see § 7.2.3.).

# 7.2.3. Fully disabling the beacon

In the event that the beacon does not switch off despite the above actions, it is necessary to stop the transmission by fully disabling the beacon (see § 13.1. Battery pack removal).



# 8. BEACON INSTALLATION

### 8.1. Mounting instructions plate

The SafeLink beacons are supplied with an instructions plate. This is a rigid plate with basic visual instructions for how to operate the beacon in an emergency.



The instruction plate should be mounted next to the beacon so that it is easily visible in an emergency. Use four screws (not supplied) to mount the plate.

Important: do not paint the plate; do not use strong degreasing solvent to clean it.

# KANNAD

# 8.2. SafeLink Auto Category 1 (Float Free)

# 8.2.1. Installation of container

The container should be installed outside on deck or wheelhouse, or against a bulkhead or any vertical and flat surface and comply with the following instructions:

- horizontal or vertical position;
- clear area to allow the beacon to rise the surface, should the vessel sink;



### Caution: watch rigging, antenna or shroud that could build obstacles;

- easy access to the crew for manual operation;
- strongly fix to the vessel with 4 screws according to drilling mask hereunder.



Note: dimensions are in millimeters (inches in bracket).

Reminder: The instructions plate must be fixed close to the container.

# KANNAD

### 8.2.2. Installation of beacon into container

Caution: If a mounting bracket is installed on the beacon, remove it before installing the beacon into its container.

(1) To remove the cover, lift the locking pin then extract it from the cover.



(2) Put the beacon into the container by sliding the antenna below the HAMMAR release system.



(3) Fold the cover onto the support making sure the slots (a) of the cover are inserted into the lugs (b) of the support.





(4) Slide the locking pin into the hole of the cover and the hole of the fastening screw of HAMMAR release system.



(5) Lock the pin by turning it down making sure it is locked by the lug of cover.





# 8.3. SafeLink Manual+ Category 2

Note: the mounting bracket is fitted with a magnet to avoid beacon activation (water, moisture) when installed in its mounting bracket.

### 8.3.1. Mounting bracket installation

The mounting bracket should be installed in a clear area, well known and identified so that it can be reached easily for emergency used. It should be strongly fixed onto a vertical surface with 3 screws according to drilling mask hereunder.



Note: dimensions are in millimeters (inches in bracket). Reminder: The instructions plate must be fixed close to the mounting bracket.

# KANNAD



8.3.2. Installation of beacon into its mounting bracket

- (1) Insert the beacon into its mounting bracket.
- (2) Insert the locking pin in the locking sleeve of the mounting bracket.
- (3) Turn downwards the locking pin up to hear a click that proves the bracket is locked.



9. TE	CHNICAL SPECIF	ICATIONS		
Operating temperature range		: -20°C to +55°C.		
Storage temperature		: -30°C to +70°C.		
Lithium manganese batteries		: High energy LiMnO2.		
Battery life		: 6 years storage life.		
Operating life		: 48 hours mini. at -20°C.		
Wa	atertight at 1 bar.			
Di	mensions	Beacon	Beacon + bracket	Beacon + container
		250 x 106 x 83 mm	250 x 111 x 91 mm	287.6 x 147.5 x 96.7 mm
W	eight	627 g.	679 g.	1280 g.
40	6 MHz SATELLITE T	RANSMISSION		
Fre	equency		: 406.037 MHz ± 0.001 MHz	
UF	HF output power		: 5W nominal (37dBm $\pm$ 2 dB)	
Ph	nase modulation		: 16K0G1D, Biphase	$L \pm 1.1 \pm 0.1$ radians
Re	epetition period		: 50 sec. ± 5%	
Tra	ansmission time		: 520 msec. ± 1%	
12	1.5 MHz HOMING T	RANSMITTER		
Fre	equency		: 121.5 MHz ± 0.006	MHz
Power		: 50 mW (17dBm ± 3 dB)		
Modulation		: AM audio sweep		
Mo	odulation format		: 3K20A3X	
Tra	ansmission		: Continuous	
ST	STROBE LIGHTS		: Super LEDs - 0.75 Candela - 23 flashes / mn	
GF	PS		: FASTRAX UC322	

# **10. MANDATORY REGISTRATION**

You must register your EPIRB with the appropriate authorities. Failure to register may slow the rescue and lead to loss of life. You are legally required to register your EPIRB.

### 10.1. Overview

The EPIRB is pre-programmed with a unique identity before it reaches the end customer. This is done by the manufacturer or, in some cases, the distributor. The identity includes a 3-digit country code. This is the country that takes responsibility for storing that particular EPIRB's registration details. In most cases this is the country to which the vessel is flagged. The country ID programmed into your EPIRB can be found from its rear identity label. You <u>must</u> register your EPIRB ownership detail with this authorities in this country.

When you activate your EPIRB in an emergency, the nearest maritime search and rescue coordination centre (MRCC) will receive the message and decode the country code. They will then access the registration database for that country and expect to find details of your vessel, its radio equipment and who to contact. If they fail to find this information, this may slow down any rescue.



### 10.2. How to register

Register on-line (were available) or complete the appropriate registration form with your EPIRB's identity; vessels details and emergency 24 hour contact numbers. Wherever possible the forms are also pre-printed with the correct mailing address and a faxback number. If your form does not have a mailing address, contact your supplier. When you have completed the form, you can choose to fax it or mail it.

It is usual to receive confirmation when you register. USA and UK owners will also receive a "Decal" sticker which you must fit to the EPIRB itself. The Decal is proof of registration. Not having a Decal may be an offence in some countries.

Useful registration contacts are: **USA Sarsat Beacon Registration** Mail or Fax to: NOAA/SARSAT NSOF, E/SP 34231 Suitland Road Suitland, MD 20746 Fax No. 301-817-4565 Tel; 1-888-212-SAVE (7283) or 301-817-4515 On-line registration www.beaconregistration.noaa.gov

### Canada Beacon Registration

Canadian Beacon Registry CFB Trenton PO Box 1000 Stn Forces Astra, ON K0K 3W0 Tel. 1-877-406-SOS1 (7671) Fax: 1-877-406-FAX8 (3298) Email: <u>CBR@sarnet.dnd.ca</u> On-line registration www.canadianbeaconregistry.forces.gc.ca

### **UK EPIRB Registry**

The Epirb Registry, Falmouth MRCC Pendennis Point, Castle Drive, Falmouth, Cornwall, TR11 4WZ Tel: + 44 (0)1326 211569 Fax: + 44 (0)1326 319264 Email: <u>epirb@mcga.gov.uk</u> On-line registration www.mcga.gov.uk/c4mca/epirb

Australian coded beacons

Beacon Registration Section, Australian Maritime Safety Authority GPO Box 2181 Canberra City ACT 2601 Tel. +61 2 6279 5766Fax.+61 2 9332 6323 On-line registration www.beacons.amsa.gov.au

# New Zealand coded beacons

Rescue Co-ordination Centre New Zealand PO Box 30050, Lower Hutt 5040 Tel: +64 4 577 8033 Fax +64 4 577 8041 Email: 406registry@maritimenz.govt.nz

COSPAS-SARSAT provide registration details for many countries; use the web address www.cospas-sarsat.org and follow the links to 406 MHz Beacons and Registration; alternatively. There is direct access to the database on line at: <a href="http://www.406registration.com">www.406registration.com</a>.





### 10.3. Radio licence

An EPIRB is a radio transmitter, if you vessel has already been allocated a radio callsign then you will already have a radio licence. It is recommended that you should update your licence to include details of your EPIRB.

### 10.4. Sale or transfer

EPIRBs registered in the USA, Canada, UK, Australia and New Zealand do not normally need to be re-programmed when transferred to a new vessel. Simply go on line (detail above) and complete another registration. For most other countries, the EPIRB must be re-programmed with either the new vessel's Maritime Mobile Station Identity (MMSI) or its radio callsign, whichever is required by the country controlling the new vessel. Since the EPIRB identity contains a country code, it follows that changing the flag state of the vessel also means the EPIRB must be re-programmed. For details of your nearest agent, either contact Kannad Marine using the details in the warranty section, or visit the service section of the web site: www.kannadmarine.com.

### 10.5. Mandatory information for Australia and New Zealand

#### Advice to owners of Emergency Position Indicating Radio Beacons:

Registration of 406 MHz satellite Emergency Position Indicating Radio Beacons (EPIRB) with the EPIRB Registration Section of the appropriate Maritime Safety Authority (MSA - see below) is mandatory because of the global alerting nature of the system. The information provided in the registration card is used only for rescue purposes. Fill in the owner registration card immediately on completion of the sales transaction. Mail the registration card immediately. If the beacon is to enter service immediately, complete the registration card and fax the information to the MSA. The original card must still be mailed to the MSA for hard-copy reference and filing. If the current owner is transferring the beacon to a new owner, the current owner is required to inform the MSA by letter, fax or telephone of the name and address of the new owner. The subsequent owner of the beacon is required to provide the MSA with the information shown on the owner registration card. This obligation transfers to all subsequent owners.\*The MSA is the Australian Maritime Safety Authority or the Maritime Safety Authority of New Zealand, as appropriate, whose respective fax numbers are .+61 2 9332 6323 (Australia) and +64 4 577 8041 (NZ).

### 10.6. USA Advice to owners of Emergency Position Indicating Radio Beacons

Failure to register the EPIRB may result in a fine

Beacon registration is now available on-line. This is the preferred method of registration; point your browser to <u>http://www.beaconregistration.noaa.gov</u> and follow the instructions on-screen. Use the EPIRB form.

### **Other Information**

At present, NOAA still accepts registration by mail or fax. The registration forms are pre-printed with the correct mailing address and fax number. A registration form may be downloaded from the website given above. However, after you register the beacon, you will be sent a decal which must be attached to the beacon.

### 10.7. Emergency Contact

It is VITAL that the Emergency Contact information is accurate, particularly regarding the telephone number, as this will be used to validate an alert. Only if the beacon registration and approximate location details can be confirmed will USCG (United States Coast Guard) launch an immediate rescue, otherwise there will be a delay whilst further alerts from the same source are received and verified.



# 11. MAINTENANCE

### 11.1. Battery replacement

**Non SOLAS Vessels:** The battery must be replaced before expiration date marked on the EPIRB body. Or if the EPIRB is used for more than 30 minutes or for any reasons other than testing.

Important: The replacement of the battery pack may only be performed by the end user were it is allowed by your local and national maritime authorities.

Only ever fit an original Kannad Marine branded replacement battery pack. If non original manufacturers replacement parts are ever used KANNAD Marine declines all responsibility and warranty is invalidated.

You will need to replace the battery when:

- The indicated expiry date has been reached or
- The EPIRB has been used in an emergency situation or
- A false activation exceeds 30 minutes of use.

**SOLAS Vessels:** Any vessel subject to GMDSS inspection. The battery must be changed every 5 years according to EPIRB Shore-based maintenance and annual testing guidelines IMO MSC/Circ. 1039. Replacement must be done regardless of the expiration date marked on the EPIRB body.

### 11.2. Servicing

All servicing must be carried out by a McMurdo Ltd approved service agent. Always call your nearest agent and talk to their service department before returning equipment. You can find your nearest service agent from:

- The Kannad Marine web site: www.kannadmarine.com.
- Contacting Kannad Marine direct (see Warranty Statement, page 24).
- Contacting a Kannad Marine distributor.

Always retain the original packaging carton as it will be needed when sending the EPIRB for service.

### 11.3. GMDSS inspections

If your vessel is subject to GMDSS regulations then you can expect to get regular visits from ship surveyors enforcing national legislation. They will check the expiry dates and activate the EPIRB to prove that it really works and they will read the identity message stored inside the EPIRB to check that you have registered it properly. Leisure vessels are not subject to these inspections. However, in some countries passenger and fishing vessels are covered by the legislation.

# 12. TRANSPORTATION

#### Passenger Aircraft;

This product contains small lithium metal batteries. The SafeLink EPIRB can normally be taken on board a passenger aircraft as a personal item in carry-on hand baggage. We recommend declaring the EPIRB to airline staff at check in, in the same way you would for a laptop PC or video camera.

#### As air cargo;

This product contains small lithium metal batteries and may be classed as 'not restricted' for air cargo when handled according to requirement PI 970 of the IATA Dangerous Goods Regulations (51st Edition). Always check with the carrier concerned for any additional shipment restrictions that may apply.



# 13. BATTERY REPLACEMENT PROCEDURE

- DO NOT CHARGE THE BATTERY
- DO NOT THROW IN FIRE
- DO NOT EXPOSE TO TEMPERATURE OVER 90°C
- DO NOT SHORT CIRCUIT

<u>Important:</u> The replacement of the battery pack may be performed by the user (if authorized by local authorities) who will only use factory replacement pack (P/N 1202368).

CAUTION: Many states have regulations in place requiring some form of battery recycling. Please refer to your local authorities before disposal.

### 13.1. Battery pack removal





- (1) Using a standard cross head screwdriver, fully unscrew the housing of battery pack located at the lower part of the beacon.
- (2) Remove the housing.
- (3) Disconnect the white connector (a) located in the bottom of the housing and remove the connectors harness (b).
- (4) Disconnect the battery pack from the connectors harness (b) by lifting up the locking straps of the 3 male connectors (c).

# 

# 13.2. Battery pack reassembly



(1) Replace the O-ring (d) of the housing then connect the 3 male connectors (c) of the new battery pack to the 3 female connectors of the connectors harness (b).
 CAUTION: to avoid reversal of polarity, the male connectors are fitted with a locking

straps (e) of each male connector (c) and fix them to the positioning lugs (f) of each female connector.

- (2) Connect the connectors harness (b) to the white connector (a) located in the bottom of the housing.
- (3) Insert the battery pack into the housing of the beacon taking care not to pinch the wires. CAUTION: the wires must be positioned on the opposite side of the white connector (a).
- (4) Reassemble and screw the housing of the battery pack.(5)Note the new expiration date (date of replacement + 6 years) in the field «Lithium battery Expiration date» located on the beacon.



# 14. AUTOMATIC RELEASE SYSTEM REPLACEMENT

### 14.1. Description

The automatic release system assembly is composed of a HAMMAR release system (A) and a severable axis (B) fitted with a rubber washer (C).



### 14.2. Replacement

Refer to drawing next page.

- Open the container and remove the beacon (see § 8.2.2. Installation of beacon into container).
- (1) Unscrew the severable axis (B) while maintaining pressed down the ejection plate (D) of the beacon and its blocking piece (E).
- (2) Remove the automatic release system assembly.
- (3) On the new HAMMAR release system, tick the new replacement date (actual month / year + 2 years. Example on drawing next page: release system replaced on Nov 2008, valid until Nov. 2010).
- (4) (4)Press down the ejection plate (D) and maintain it pressed with its blocking piece (E).(5)Screw the new automatic release system assembly in the screw of the blocking piece.

Put back the beacon into the container and close the container (see § 8.2.2. Installation of beacon into container). Record the release system replacement, page 23 of this manual.



# **BEACON LOCATION LOG**

Vessel r	name
----------	------

KANNAD

 □ MMSI
□ Serialised code
Owner's name
Vessel name
Owner's name
ID CODE (HEX)
· · · · · · · · · · · · · · · · · · ·
Vessel name
□ Serialised code
□ Serialised code
□ Serialised code  Owner's name
□ Serialised code  Owner's name
<ul> <li>Serialised code</li> <li>Owner's name</li> <li>ID CODE (HEX)</li> </ul>
<ul> <li>Serialised code</li> <li>Owner's name</li> <li>ID CODE (HEX)</li> </ul>
Serialised code Owner's name ID CODE (HEX) Vessel name
Serialised code Owner's name ID CODE (HEX) Vessel name
□ Serialised code Owner's name ID CODE (HEX) Vessel name □ MMSI
Serialised code     Owner's name     ID CODE (HEX)      Vessel name     MMSI     Radio Code
Serialised code     Owner's name     ID CODE (HEX)      Vessel name     MMSI     Radio Code     Serialised code
Serialised code     Owner's name     ID CODE (HEX)      Vessel name     MMSI     Radio Code     Serialised code
Serialised code     Owner's name     ID CODE (HEX)      Vessel name     MMSI     Radio Code     Serialised code     Owner's name
□ Serialised code Owner's name ID CODE (HEX) Vessel name □ MMSI □ Radio Code □ Serialised code □ Serialised code □ D CODE (HEX)
□ Serialised code Owner's name ID CODE (HEX) Vessel name □ MMSI □ Radio Code □ Serialised code □ Serialised code ID CODE (HEX)



# **SBM / BATTERY REPLACEMENT**

	Date / Signature	Next replacement - SBM
Battery		□
SBM 🗆		□
Battery		□
SBM 🗆		□
Battery		□
SBM 🗆		□
Battery		□
SBM 🗆		□
Battery		□
SBM 🗆		□
Battery		□
SBM 🗆		□
Battery		□
SBM 🗆		□
Battery		□
SBM 🗆		□
Battery		□
SBM 🗆		□



# **RELEASE SYSTEM REMPLACEMENT**

Date / Signature	Next remplacement



### Warranty Statement

Kannad Marine is a brand of McMurdo Limited. Subject to the provisions set out below McMurdo Ltd warrants that this product will be free of defects in materials and workmanship for a period of five years from the date of purchase..McMurdo Ltd will not be liable to the buyer under the above warranty:-

- for any defect arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow McMurdo Ltd's instructions (whether oral or in writing) including a failure to install properly and/or to use batteries recommended and/or supplied by McMurdo Ltd, misuse or alterations or repair of the product by persons other than McMurdo Ltd or an approved service agent;
- for parts, materials or equipment not manufactured by McMurdo Ltd in respect of which the buyer shall only be entitled to the benefit of any warranty or guarantee given by the manufacturer to McMurdo Ltd;
- for the battery storage life which is specifically excluded from this warranty;
- for the HRU (were fitted) storage life which is specifically excluded from this warranty;
- if the total price for the product has not been paid.

THE LIMITED WARRANTY STATED ABOVE IS EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. McMurdo Ltd will not be liable for indirect, special, incidental or consequential damages of any kind sustained from any cause. In no event shall McMurdo Ltd be liable for any breach of warranty or other claim in an amount exceeding the purchase price of the product. This warranty does not affect any statutory rights of the consumer.

In order to be valid, claims must be made under the above warranty in writing as soon as practicable after discovery of the defect or failure and within the warranty period referred to above. Proof of purchase will be required. The claim should be sent together with the product in question to the address set out below or to an Approved Service Agent.

Following a valid warranty claim McMurdo Ltd shall be entitled to repair or replace the product (or part) in question free of charge, or at McMurdo Ltd's sole discretion to refund to the buyer the price of the product (or a proportional part of the price). McMurdo Ltd shall not be liable to a buyer who is not a consumer for any other loss or damage (whether indirect, special or consequential loss of profit or otherwise) costs, expenses or other claims for compensation which arise out of or in connection with this product. In the case of a consumer McMurdo Ltd shall only be liable where other loss or damage is foreseeable.

Nothing shall limit McMurdo Ltd's liability for death or personal injury caused by its negligence. This warranty is to be interpreted under English law.

All enquiries relating to this warranty or approved service agents should be sent to:

McMurdo Limited, Silver Point, Airport Service Road, Portsmouth, Hampshire, PO3 5PB, UK

Telephone: Int + 44 (0) 23 9262 3900 Fax: Int + 44 (0) 23 9262 3998

Web: www.kannadmarine.com Email: <u>customerservice@kannadmarine.com</u>.

BEACON FIRST ASSIGNMENT		
Vessel Name		
Radio Code		
Serialized Code		
Owner's name		
Next release system replacement		
Next SBM date		
Next battery replacement date		
Cachet	Date	

KANNAD

# **IDENTIFICATION OF CATEGORY**





Kannad Marine McMurdo Ltd Silver Point Airport Service Road Portsmouth PO3 5PB United Kingdom

Phone:+44 (0)23 9262 3900 Fax:+44 (0)23 9262 3998 Email: <u>customerservice@kannadmarine.com</u> Website: <u>www.kannadmarine.com</u>

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